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ILLUSTRATIONS

TO ACCOMPANY THE

ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS

FOR

THE YEAR 1869.

VOLUME IV.

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ILLUSTRATIONS.

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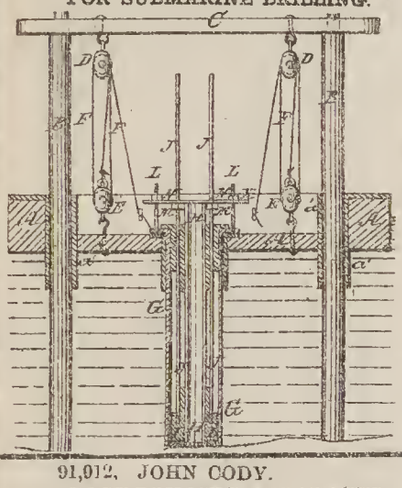
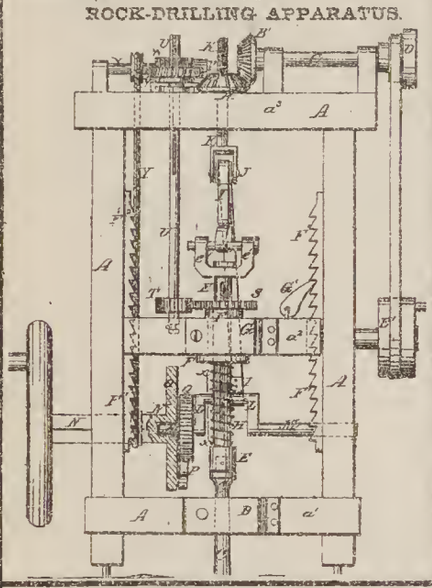
JUNE 29, 1869.

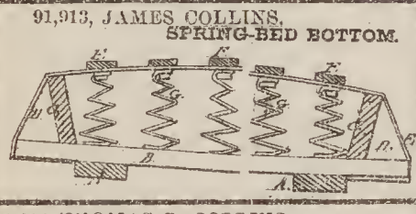
91,911. JOHN CODY. PLATFORM FOR SUBMARINE DRILLING.



91,912, JOHN CODY. ROCK-DRILLING APPARATUS.



91,913, JAMES COLLINS. SPRING-BED BOTTOM.



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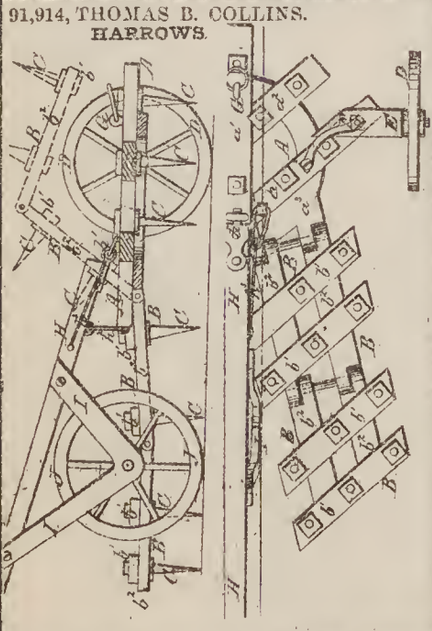
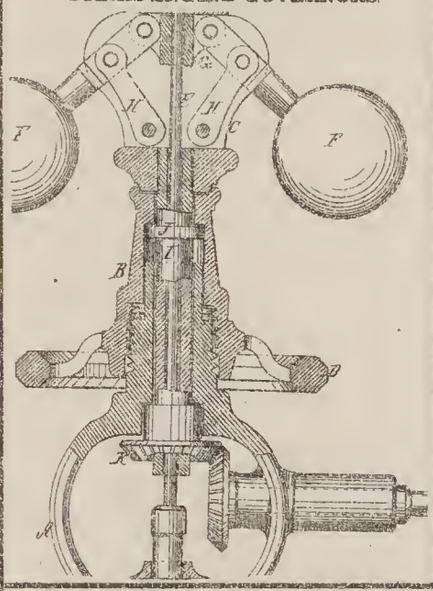
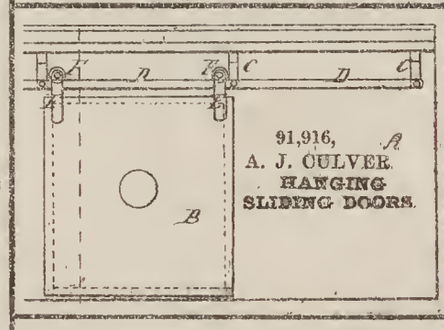


91,915, CHAS. A. CONDE. STEAM-ENGINE GOVERNORS.



91,916, A. J. CULVER. HANGING SLIDING DOORS.



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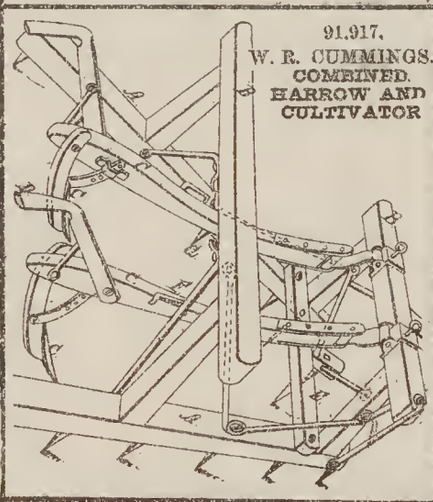

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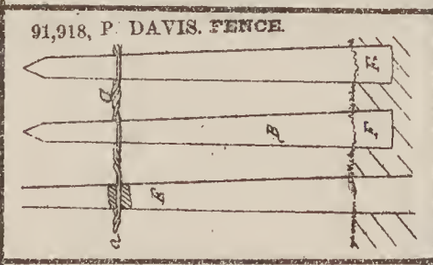

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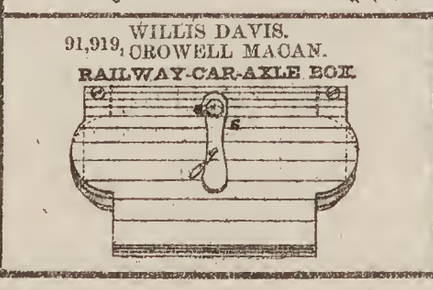

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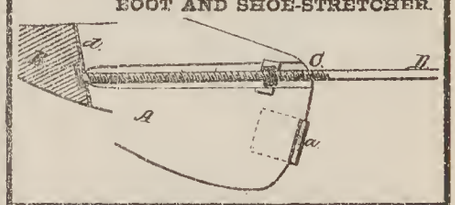

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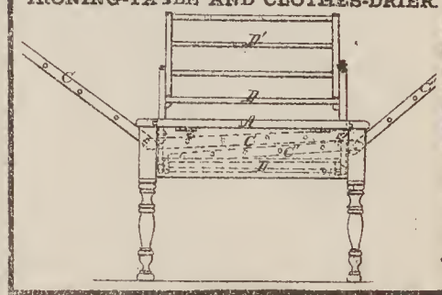

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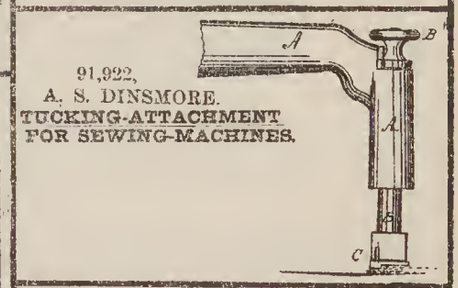

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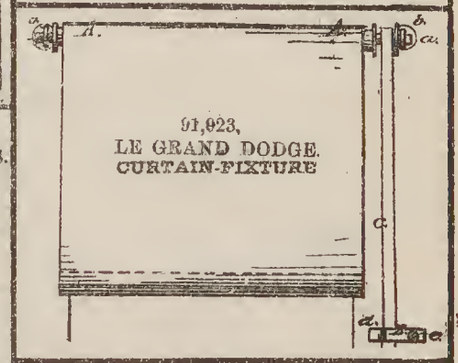

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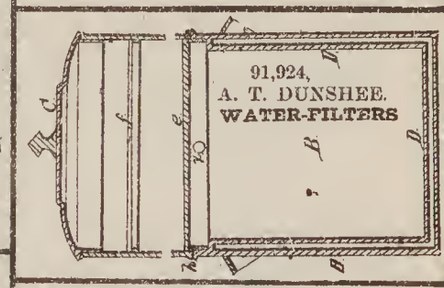
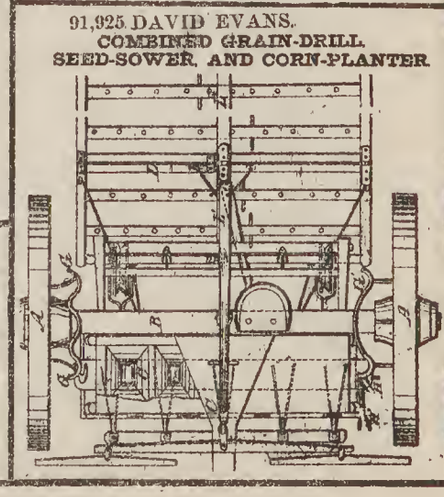
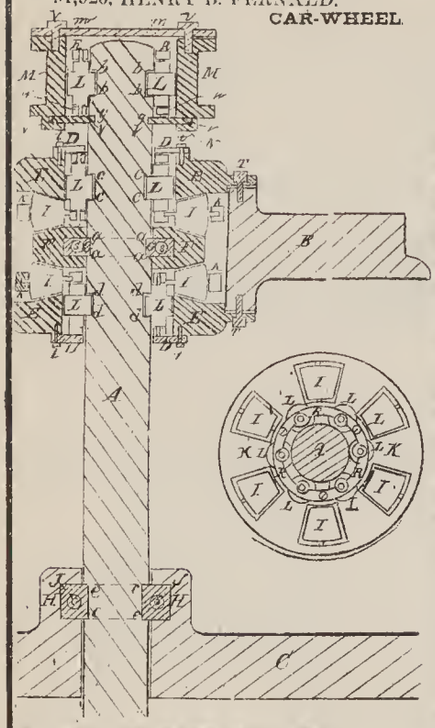
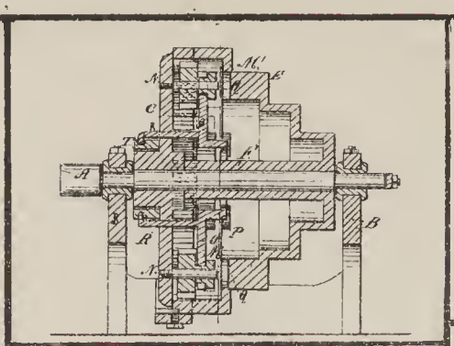


91,925. DAVID EVANS. COMBINED GRAIN-DRILL, SEED-SOWER, AND CORN-PLANTER.



91,926, HENRY B. FERNALD.
CAR-WHEEL.





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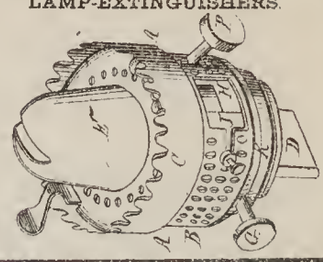
LAMP-EXTINGUISHERS.



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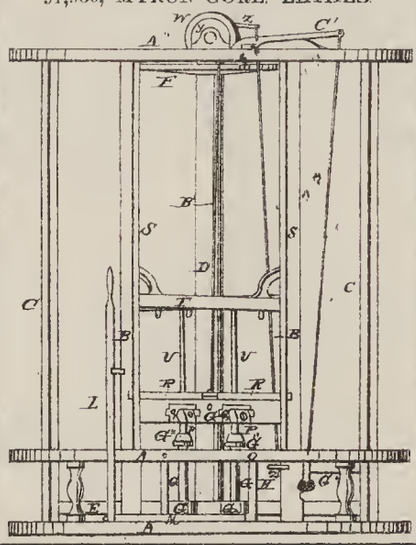

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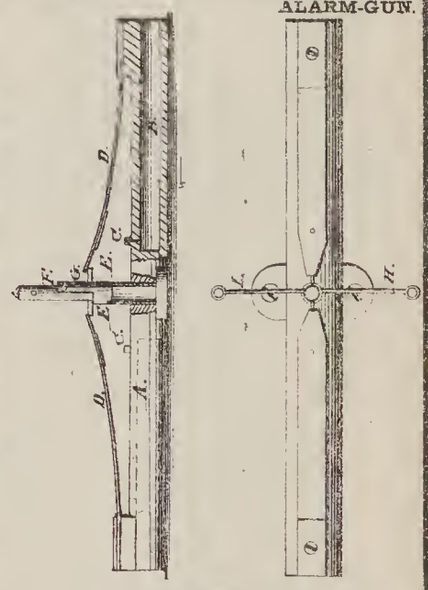
ALARM-GUN.



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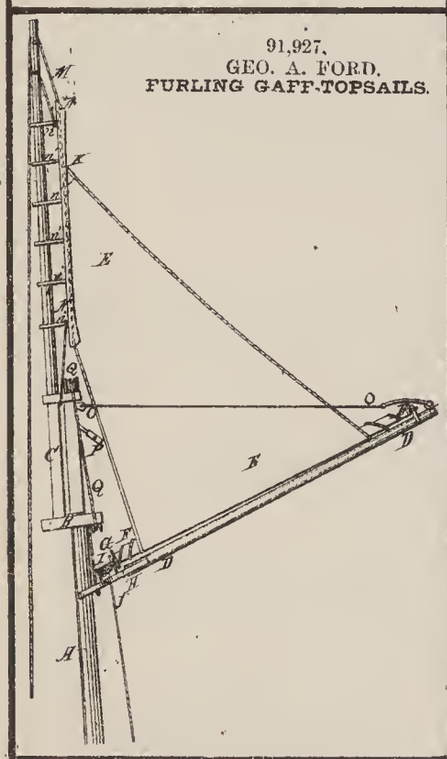
FURLING GAFF-TOPSAILS.



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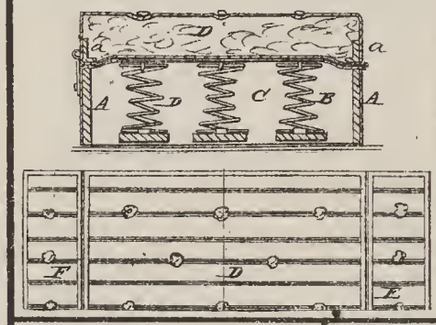

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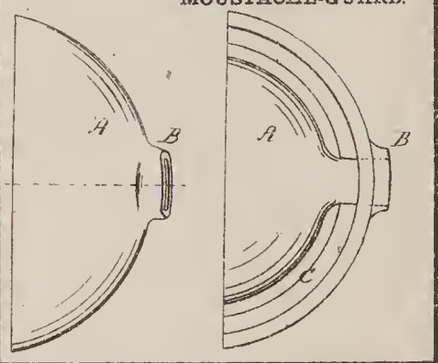

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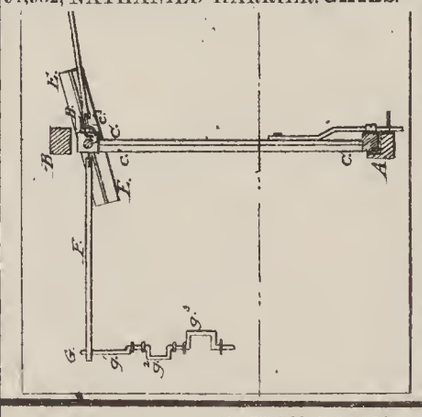

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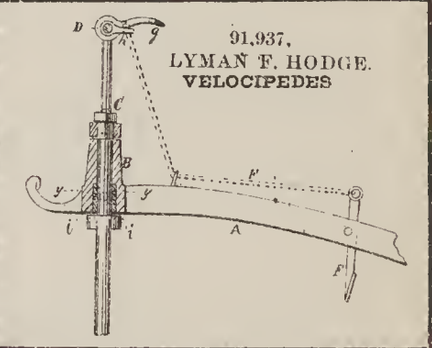
LYMAN F. HODGE.
VELOCIPEDES.



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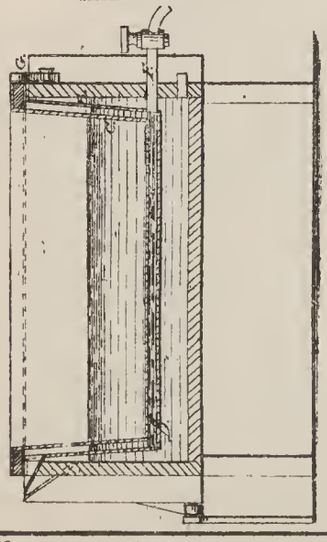

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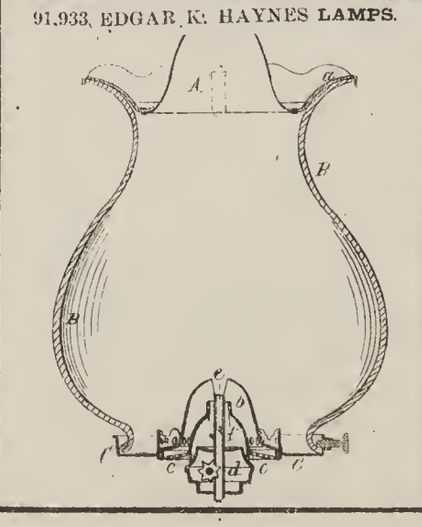

91,929, ADIN GAUNTT.
APPARATUS FOR CHANGING SPEED IN MACHINERY.

91,938,
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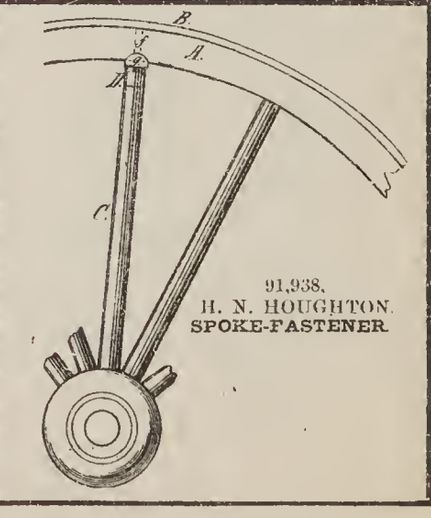
SPOKE-FASTENER.



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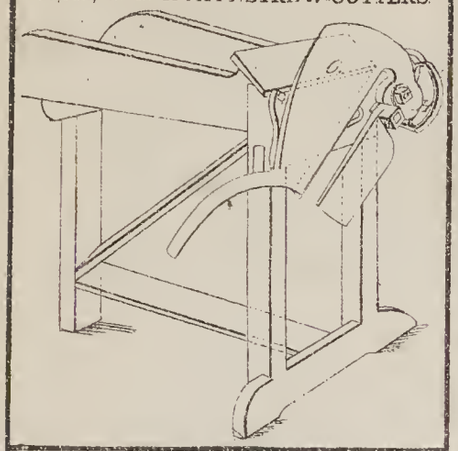
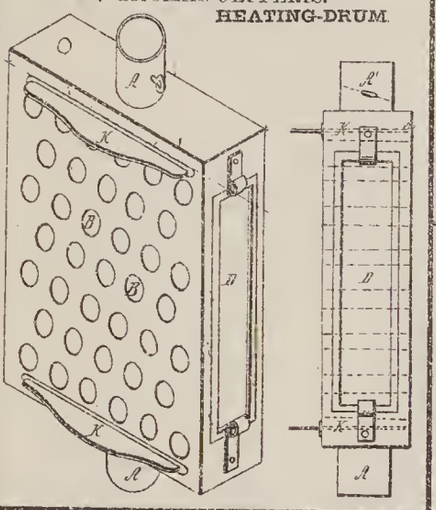


91,940, THOMAS JEFFERIS. HEATING-DRUM.



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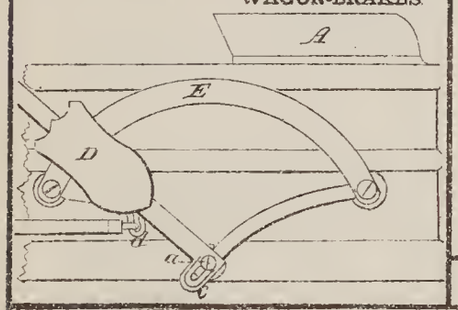

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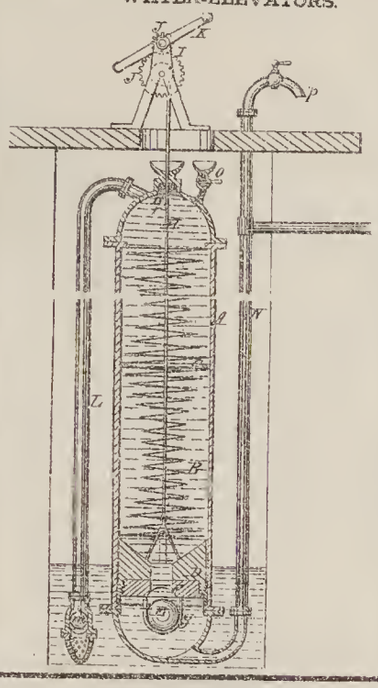

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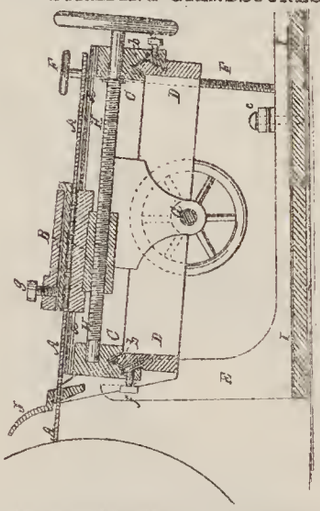

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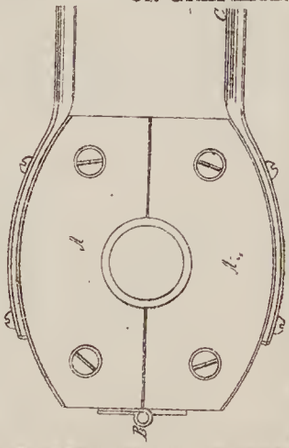
91,946, J. B. LHOTE. MOULDS FOR GLASS FROM GAS-CARBON OR GRAPHITE.



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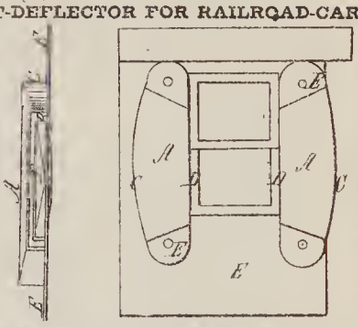

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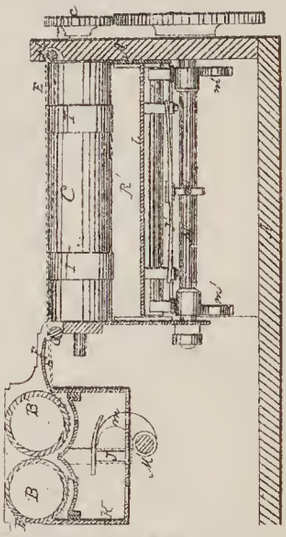

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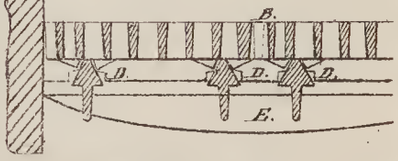

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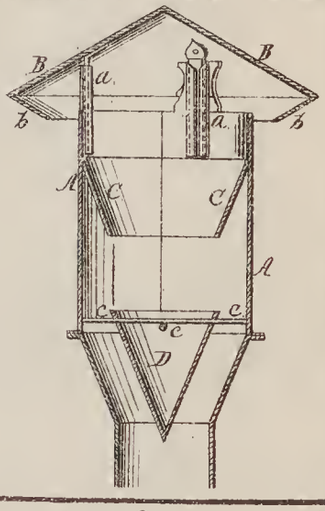

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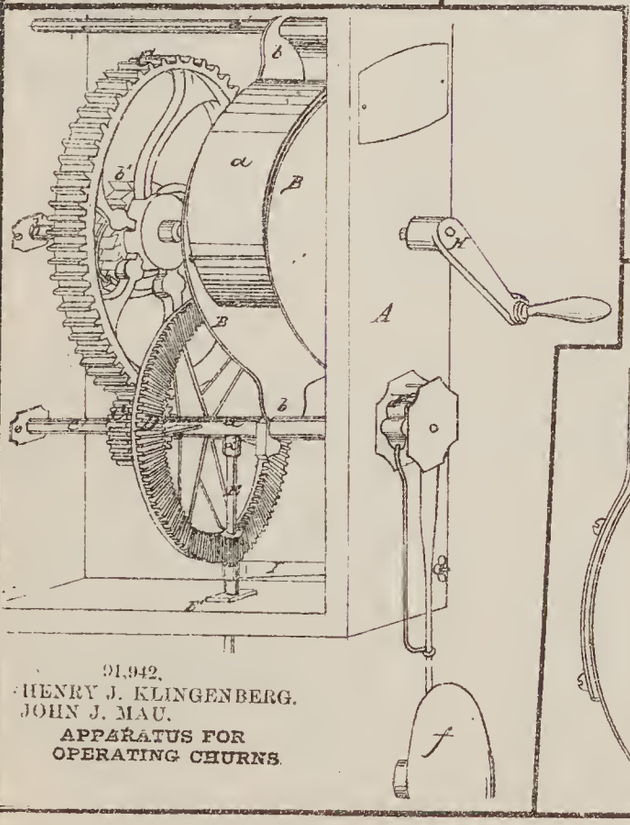

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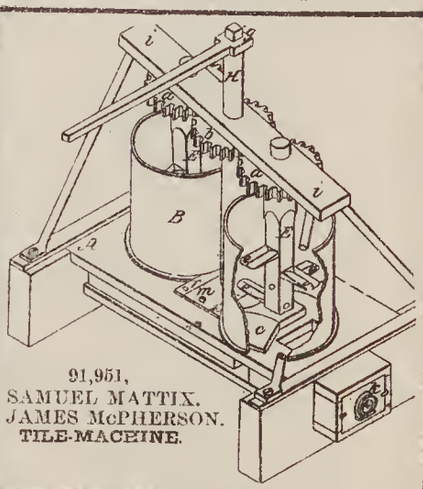
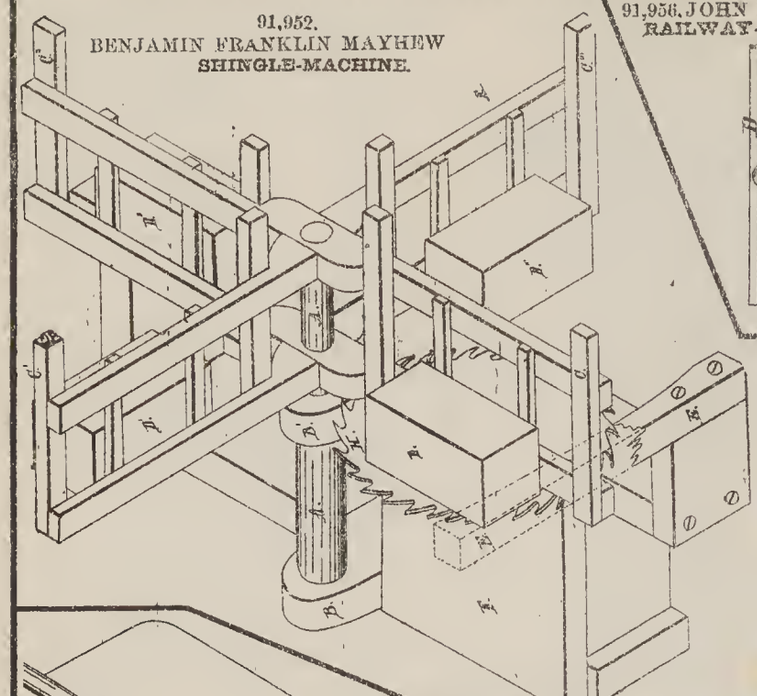
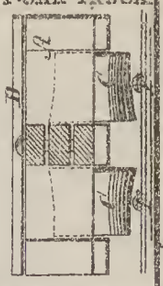


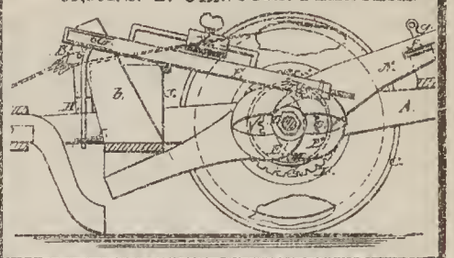
91,952.
BENJAMIN FRANKLIN MAYHEW
SHINGLE-MACHINE.



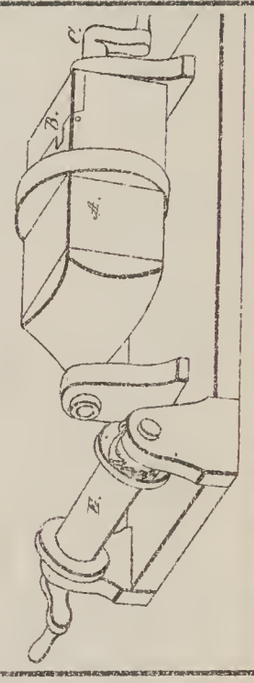
91,956. JOHN M. McGEHU.
RAILWAY-CAR TRUCK.



91,961. S. Y. ORR. CORN-PLANTERS.



91,962. D. D. PARMELEE.
MODE OF UTILIZING TIN-PLATE CUTTINGS IN THE MANUFACTURE OF IRON AND STEEL.



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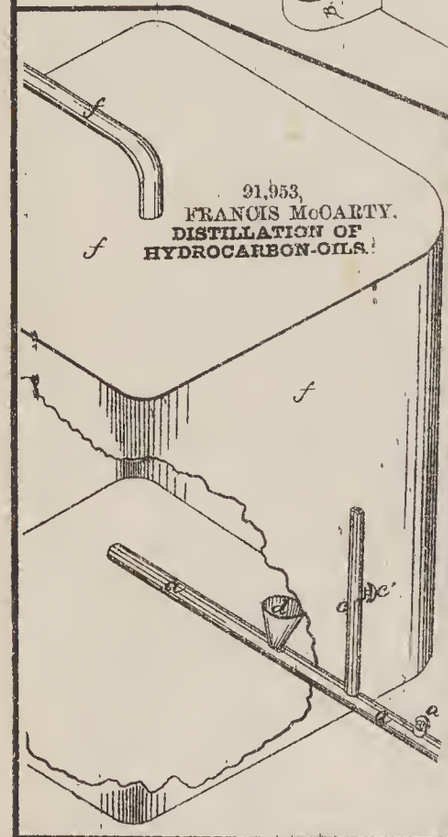
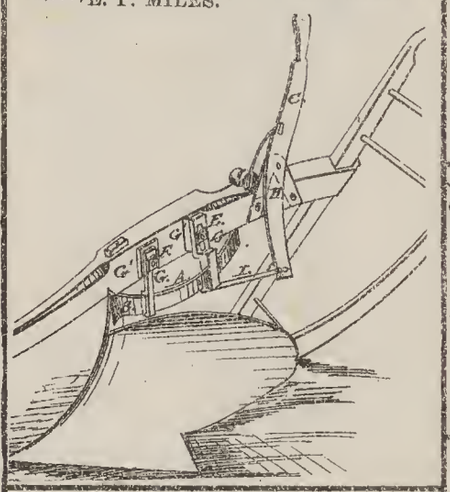
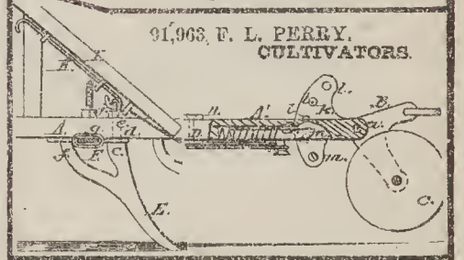
FRANCIS McCARTY.
DISTILLATION OF HYDROCARBON-OILS.



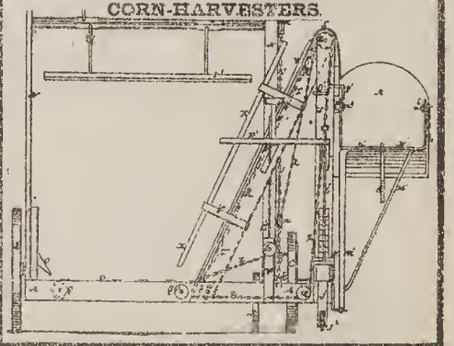
J. MILES.
91,957, E. P. MILES. PLOW-CLEANER.



91,963. F. L. PERRY.
CULTIVATORS.

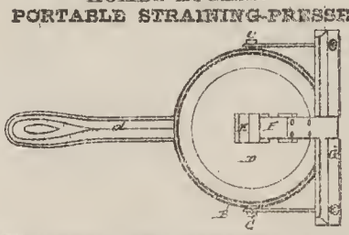


91,964 JOHN POFFENBERGER.
IRA M. POFFENBERGER.
CORN-HARVESTERS.

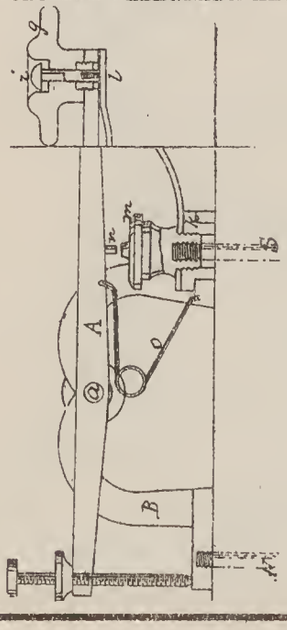


91,954, W. L. McCORD.
MEDICAL COMPOUND.

91,958. STEPHEN MOORE.
HOMER ROGERS.
PORTABLE STRAINING-PRESSES.

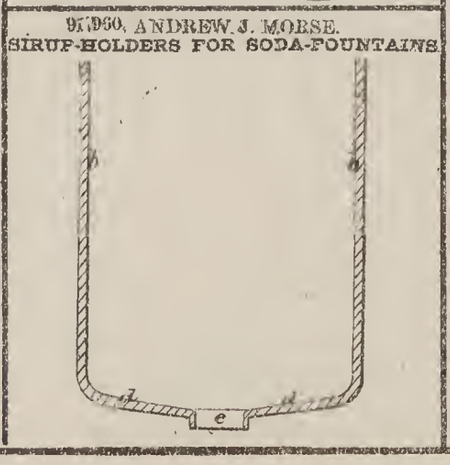


91,955. JIM. H. McELROY.
SELF-CLOSING TELEGRAPH-KEYS.

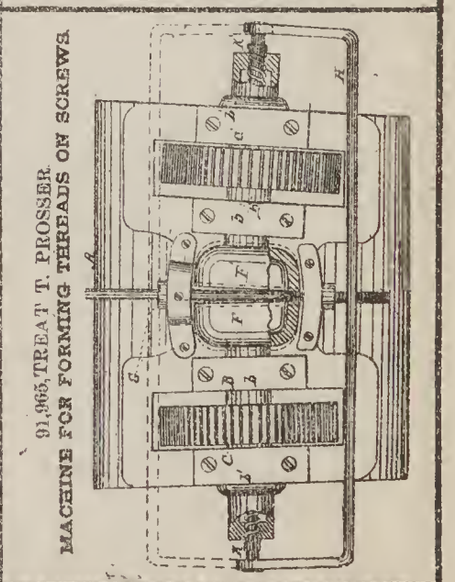


91,959. F. L. MORRISON. HAY-FORK.

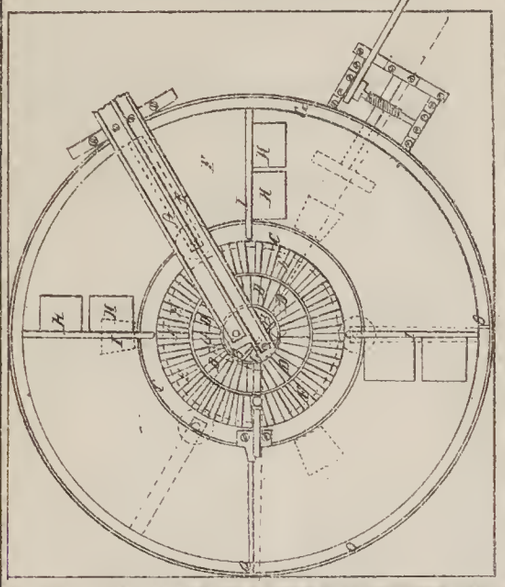
91,960. ANDREW J. MORSE.
SIRUP-HOLDERS FOR SODA-FOUNTAINS.



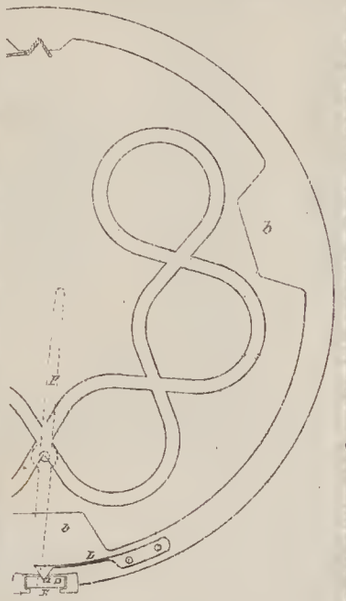
91,965. TREAT T. PROSSER.
MACHINE FOR FORMING THREADS ON SCREWS.



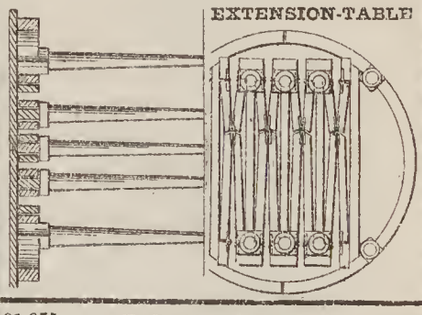
91,966, JOSEPH W. V. RAWLINS. SAMUEL STEPHENS.
ORE-CONCENTRATOR.



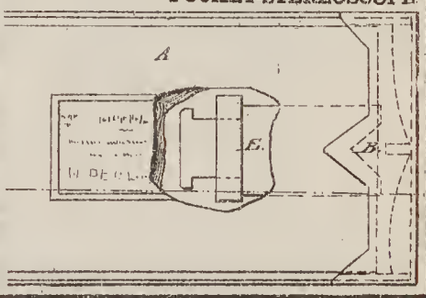
91,970. SOCRATES SCHOLFIELD.
BRAIDING-MACHINES



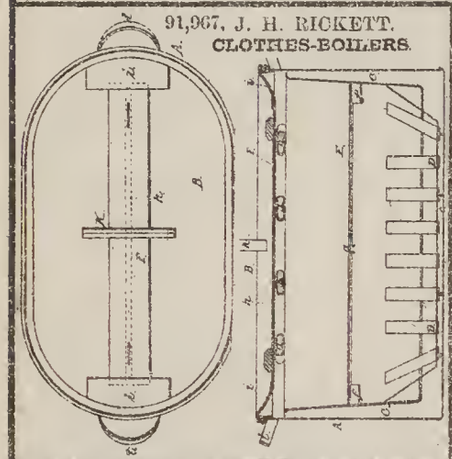
91,974, JOHN SIMENSEN.
EXTENSION-TABLE



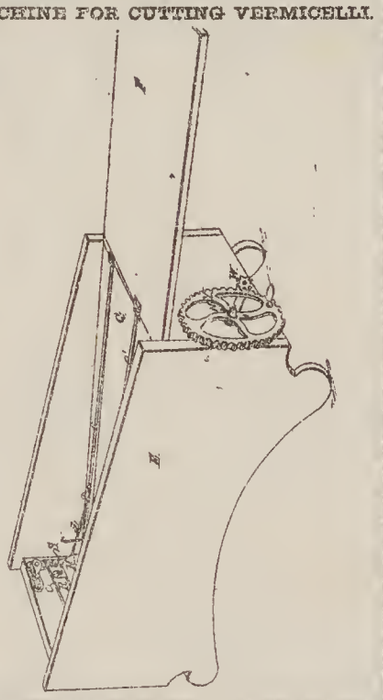
91,975, T. D. SIMONTON.
POCKET-STEREOSCOPE.



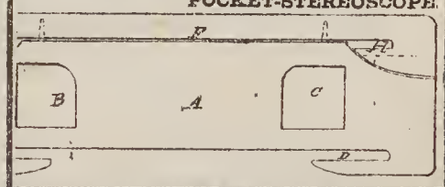
91,967, J. H. RICKETT.
CLOTHES-BOILERS.



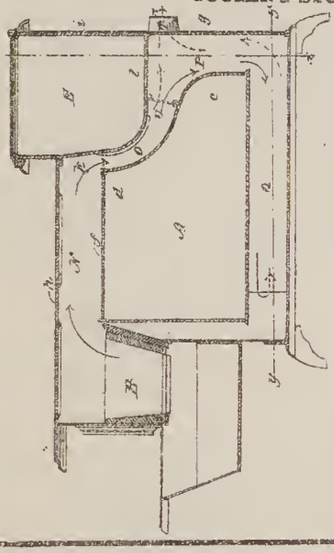
91,971, GOTTL. SCHWARZWALDER.
MACHINE FOR CUTTING VERMICELLI.



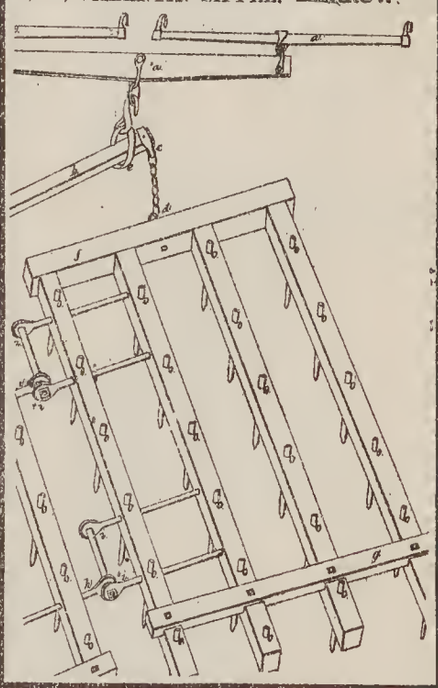
91,976, THOMAS D. SIMONTON.
POCKET-STEREOSCOPE.



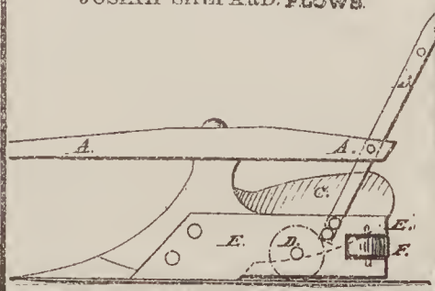
91,968, FRANCIS RITCHIE.
COOKING-STOVE.



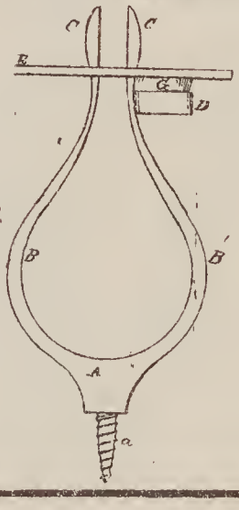
91,977, VALENTIN SIPPEL. HARROW.



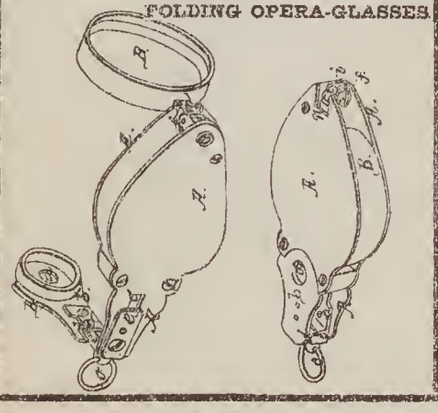
91,972, JOSIAH SHEPARD. PLOWS.



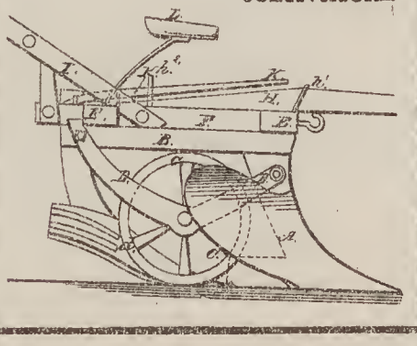
91,978. OTTO SLIKER. DOOR-HOLDER.



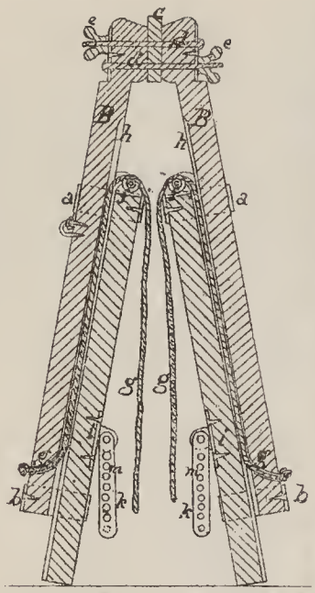
91,969, JOS. SAXTON.
FOLDING OPERA-GLASSES.



91,973, JOSIAH SHEPARD.
CULTIVATORS.

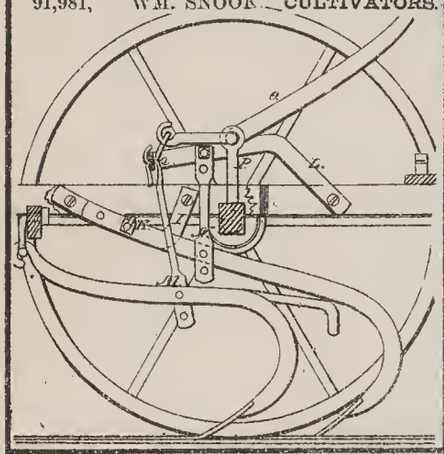


91,979, OTTO SLIKER.
EXTENSION-TRESTLE



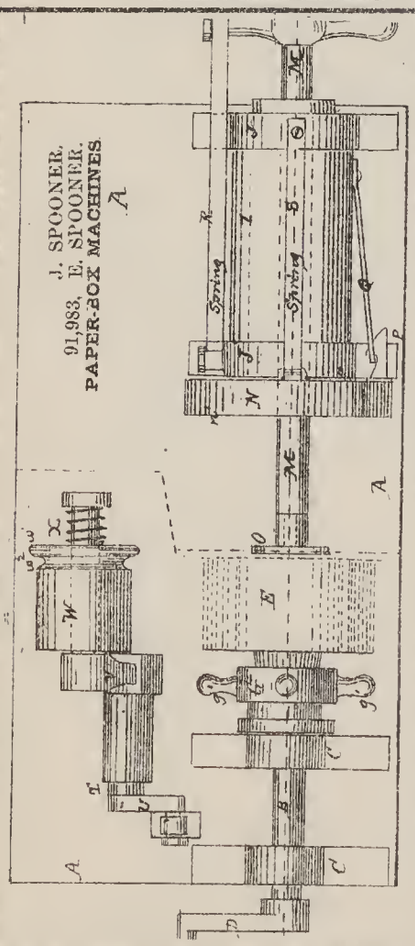
91,980, BENJ. F. SMITH.
PIPE FOR WATER GAS, &c.

91,981, WM. SNOOK. CULTIVATORS.

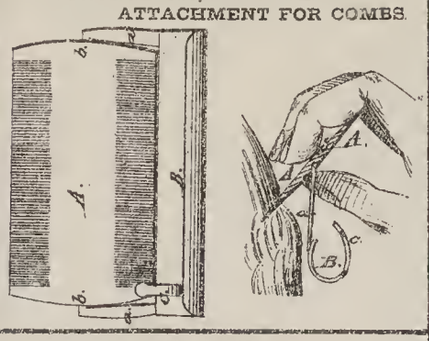


91,982, FREDERIC H. SNYDER.
COMPOSITION FOR COVERING STEAM-GENERATORS.

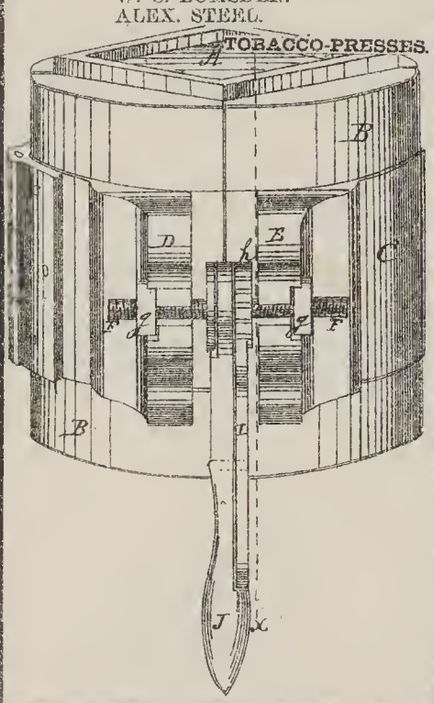
91,983, J. SPOONER. E. SPOONER.
PAPER-BOX MACHINES.



91,984, GEORGE STACKHOUSE.
ATTACHMENT FOR COMBS.

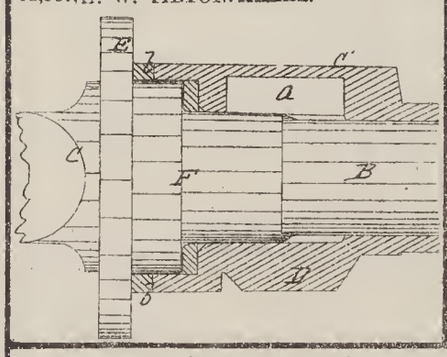


91,985, W. H. TAPPEY.
W. O. LUMSDEN.
ALEX. STERO.
TOBACCO-PRESSES.

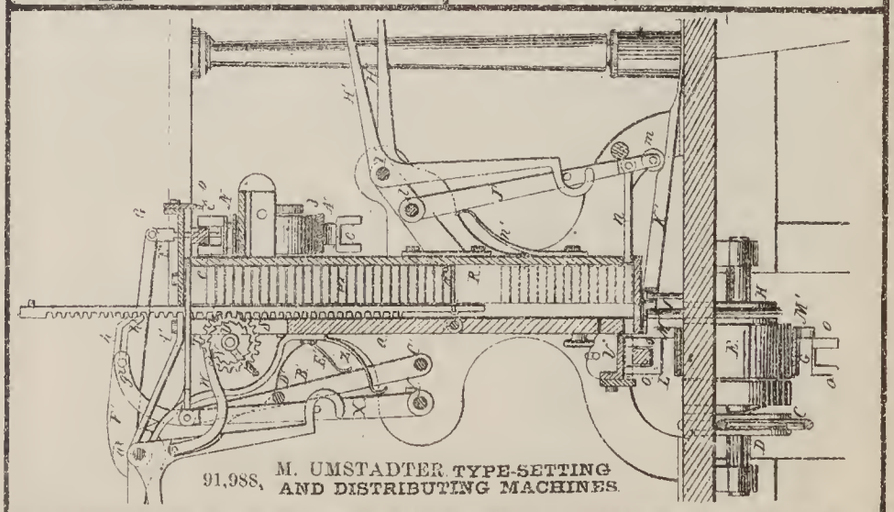


91,986, CLINTON W. TERPENING.
HARNESS-TUG OR TRACE-SUPPORTER.

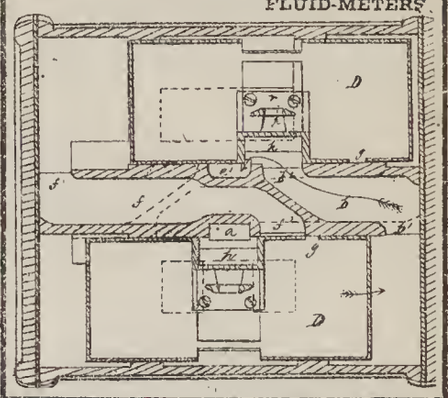
91,987, H. W. TILTON. AXLES.



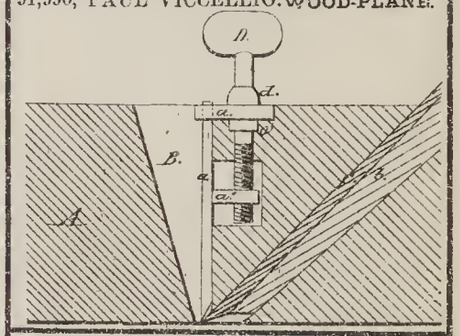
91,988, M. UMSTADTER. TYPE-SETTING AND DISTRIBUTING MACHINES.



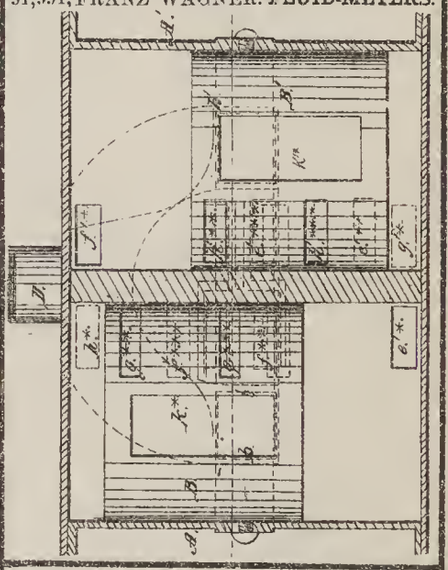
91,989, J. B. VAN DEUSEN.
FLUID-METERS.



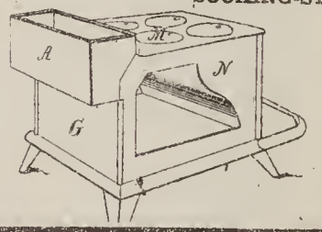
91,990, PAUL VICCELLIO. WOOD-PLANE.



91,991, FRANZ WAGNER. FLUID-METERS.



91,992, JOSEPH B. WILKINSON.
COOKING-STOVE.



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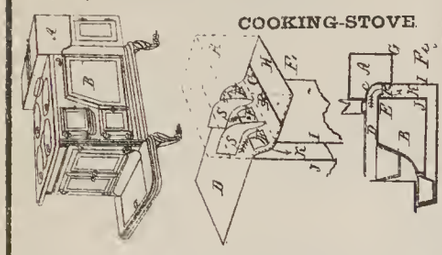
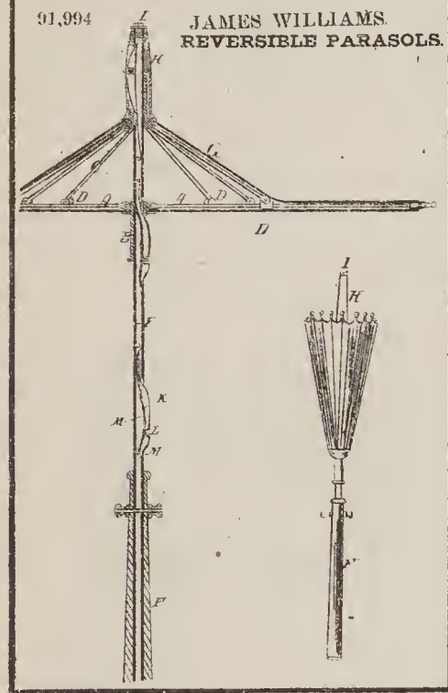
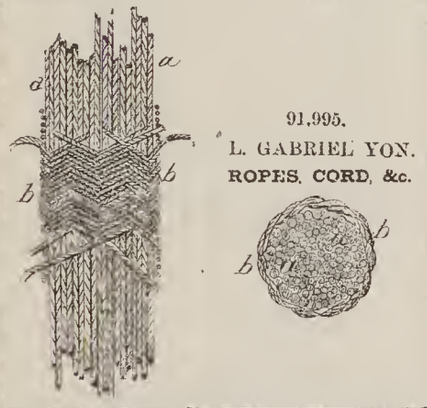
COOKING-STOVE.



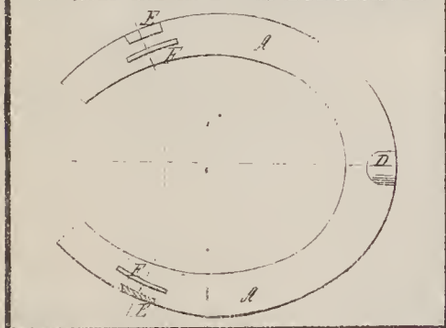
91,994 JAMES WILLIAMS.
REVERSIBLE PARASOLS.



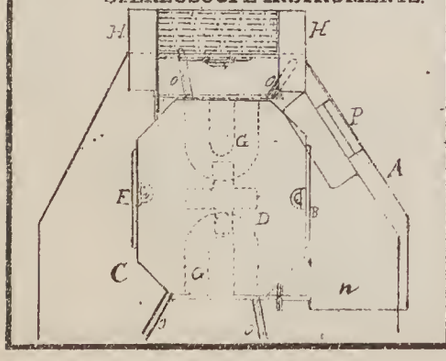


91,995.
L. GABRIEL YON.
ROPES, CORD, &c.

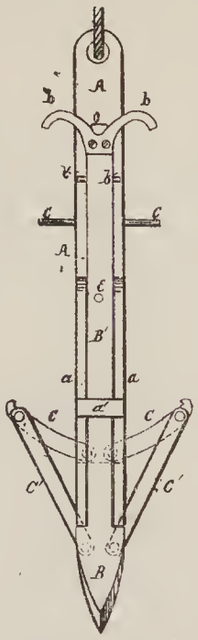
91,996, ALBERT A. YORK. HORSESHOES



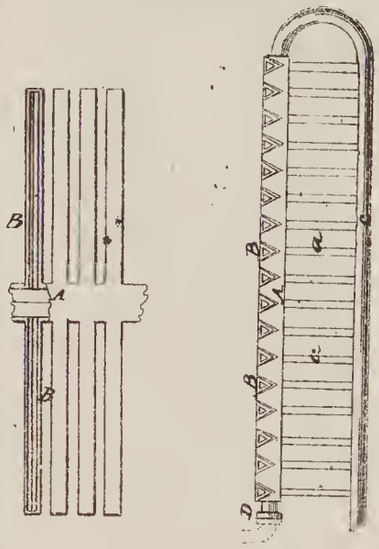
91,997, JOHN F. ADAMS.
STEREOSCOPE-INSTRUMENTS.



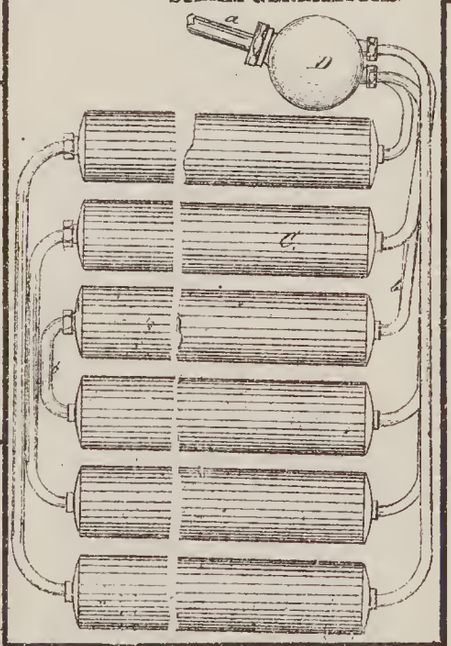
91,998,
BENJN. F. ALEXANDER.
HORSE HAY-FORKS.



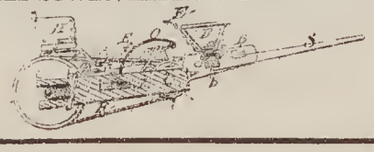
91,999, B. T. BABBITT.
GRATES FOR STEAM-GENERATOR AND OTHER FURNACES.



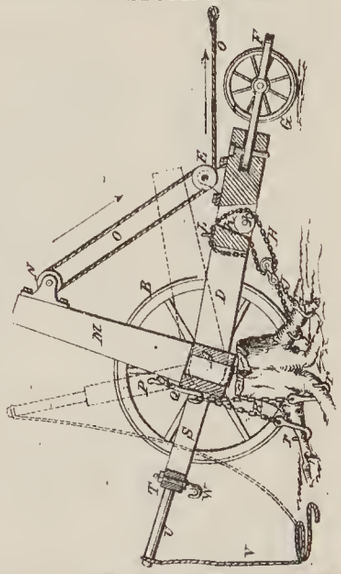
92,000, B. T. BABBITT.
STEAM-GENERATORS.



92,001, EDWIN A. BARTON. COMBINED SEED-SOWER, HARROW, AND ROLLER.



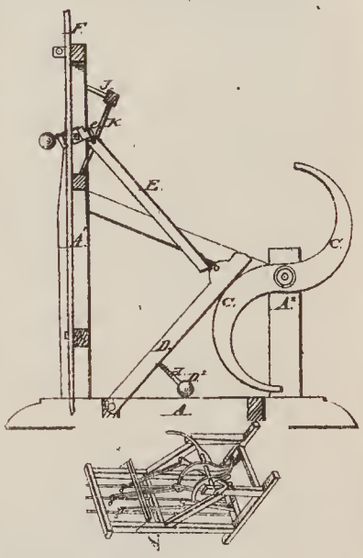
92,002, ISIDORE BEZENAH.
STUMP-EXTRACTOR.



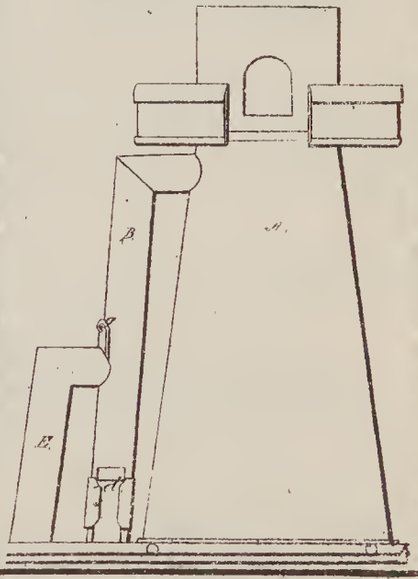
92,003, IRA BICKNELL. FUEL.

92,004, F. C. A. BOCK.
MANUFACTURE OF STEARIC ACID.

92,005, N. P. BRADISH. ROCK-DRILL.

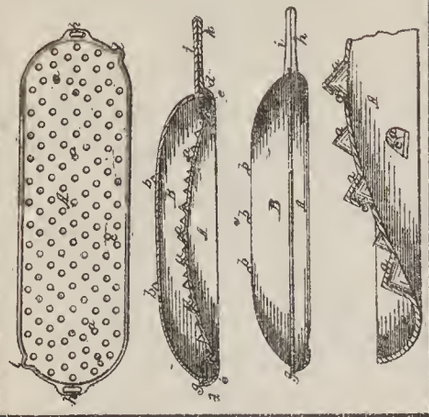


92,006, BARNERD BRANON.
GEO. H. BALDWIN.
THE WASTE GASES OF APPARATUS FOR COLLECTING SMELTING-FURNACES.



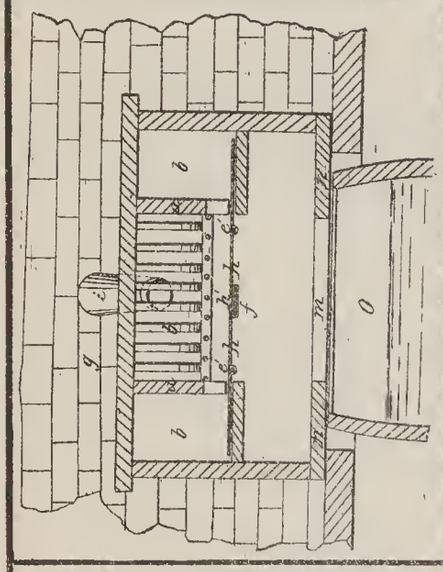
92,007, JOSEPH SYKES BROMHEAD.
REGULATORS FOR GAS-BURNERS.

92,008, WM. FRANK BROWNE. BROILER.

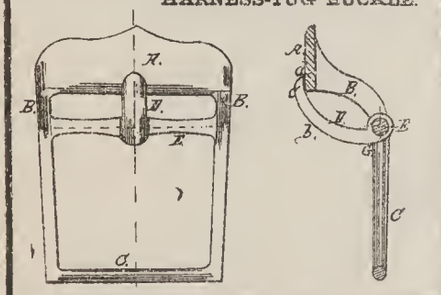


92,009, WILLIAM BRÜCKNER.
PROCESS OF ROASTING AURIFEROUS SULPHURETS.

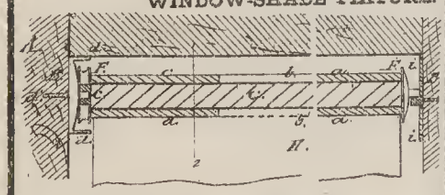
92,010, D. R. BRUTON. ANIMAL-TRAP.



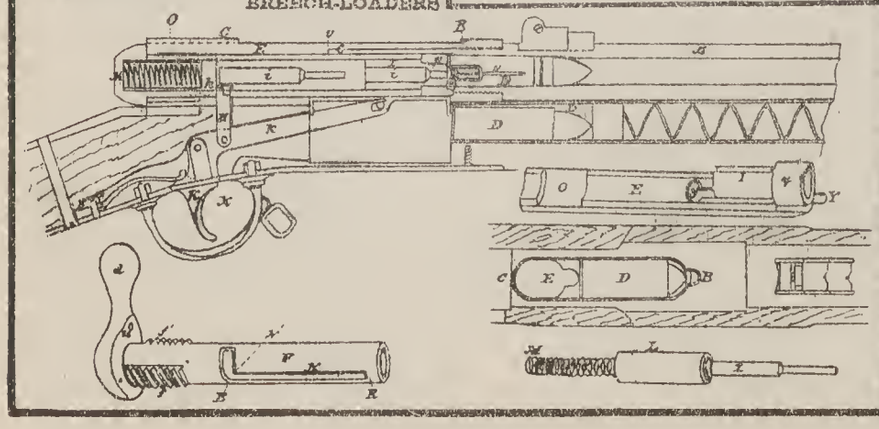
92,011, GEO. H. BUCKIUS.
HARNESS-TUG BUCKLE.



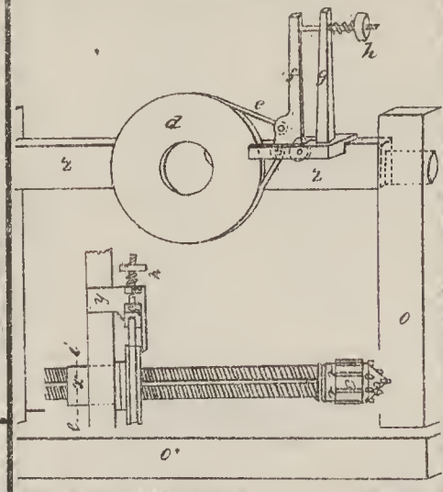
92,012, AARON H. BURGESS, M. D.
WINDOW-SHADE FIXTURE.



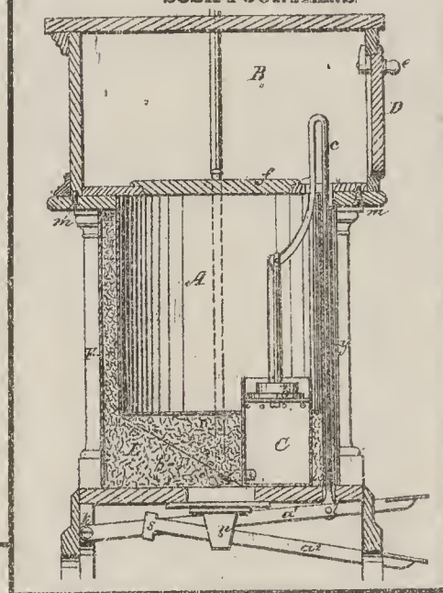
92,013, BETHEL BURTON.
BREECH-LOADERS



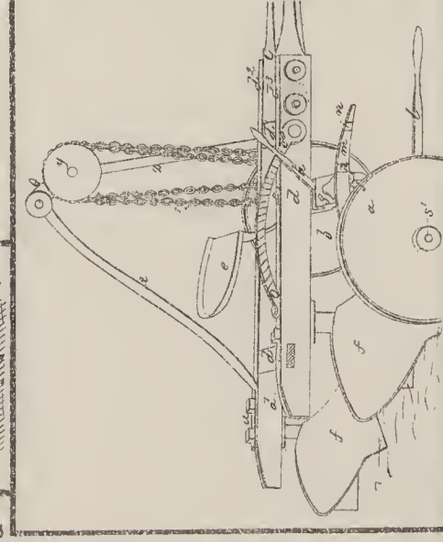
92,014, GEORGE F. CASE. ROCK-DRILL.



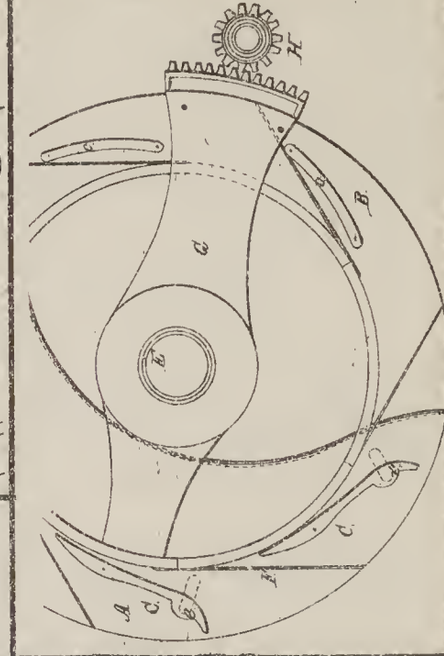
92,015, JAMES W. CHAPMAN.
SODA-FOUNTAINS.



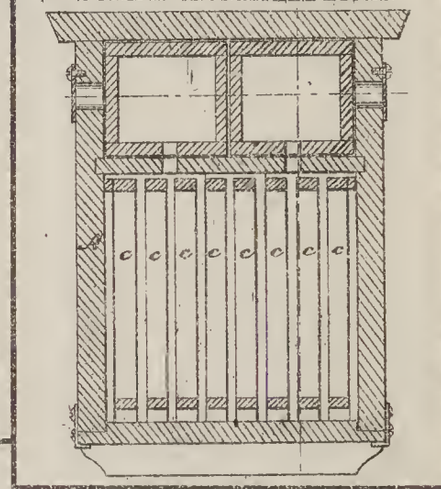
92,016, LUKE CHAPMAN.
GANG-PLOWS.



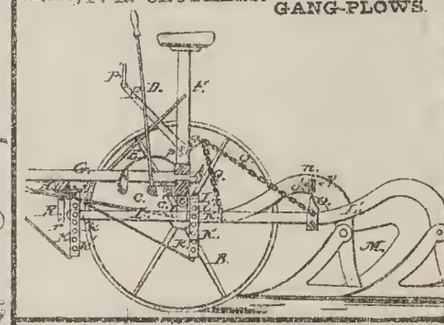
92,017, GARDNER COX. WATER-WHEELS.



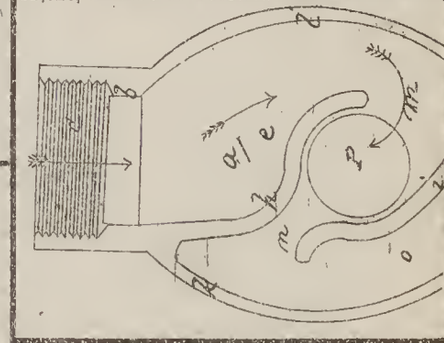
92,018, JOSEPH CRONER. BEE-HIVES.



92,019, F. R. CROTHERS. GANG-PLOWS.

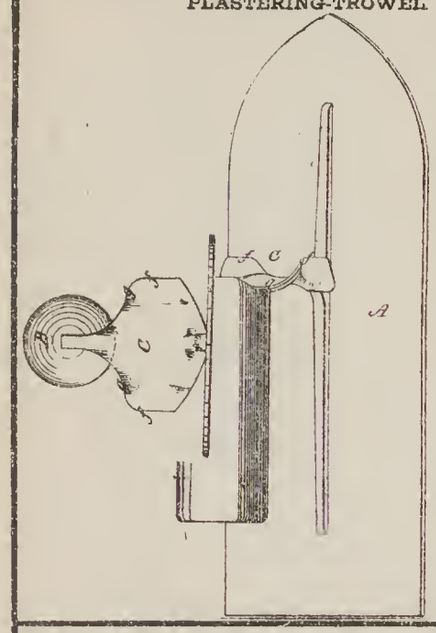


92,020, JAMES F. DACEY. STENCH-TRAPS.

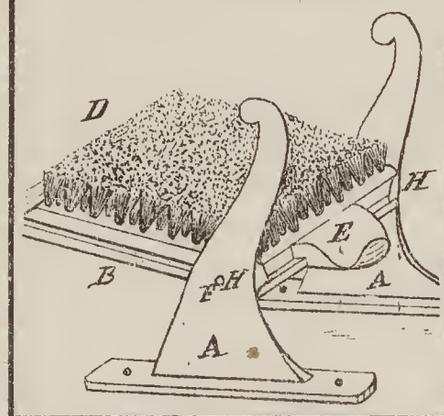


92,021.
GEORGE E. DERING.
RAILWAY-RAIL SPLICE.

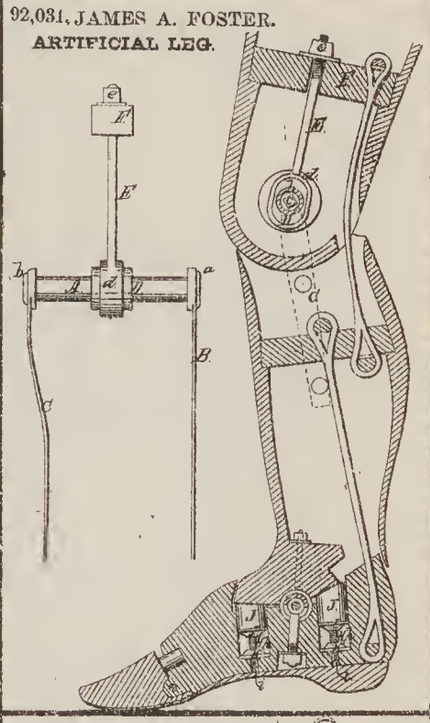
92,022, JEROME C. DIETRICH.
CHAS. I. HUMPHREY.
PLASTERING-TROWEL.



92,026, WESLEY FARRINGTON
MAT AND SCRAPER.

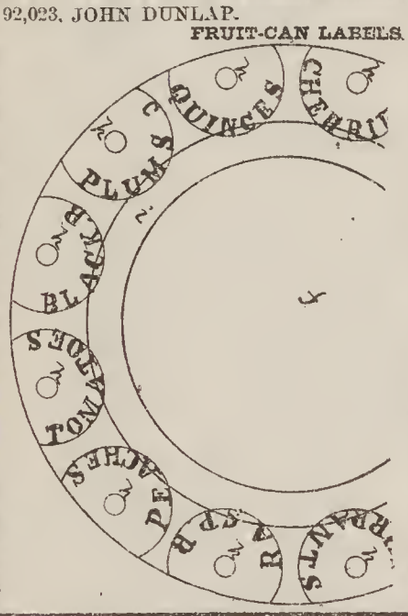


92,031, JAMES A. FOSTER.
ARTIFICIAL LEG.

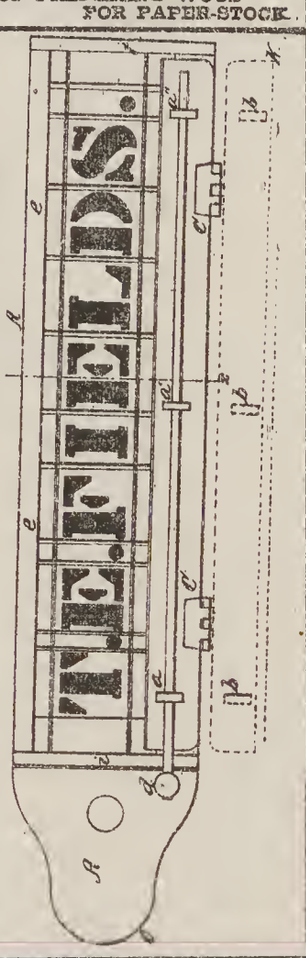


92,027, ALBERT FICKETT.
PROCESS OF PREPARING WOOD
FOR PAPER-STOCK.

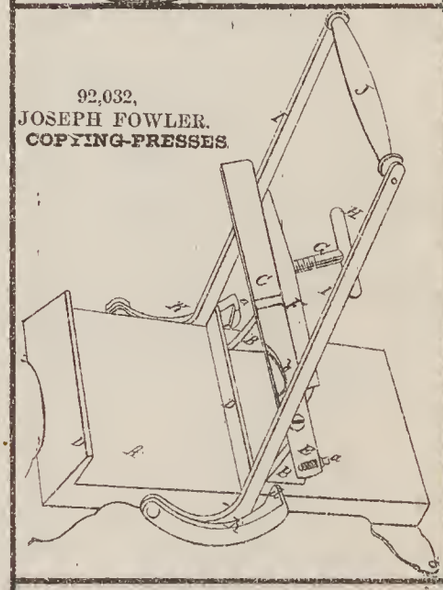
92,023, JOHN DUNLAP.
FRUIT-CAN LABELS.



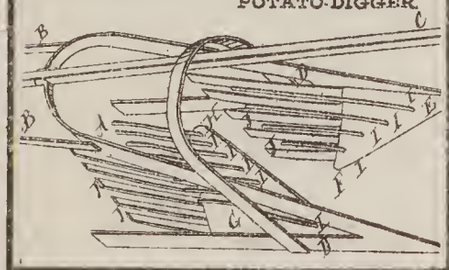
92,028, T. E. FIELDS.
STENCILLING-APPARATUS.



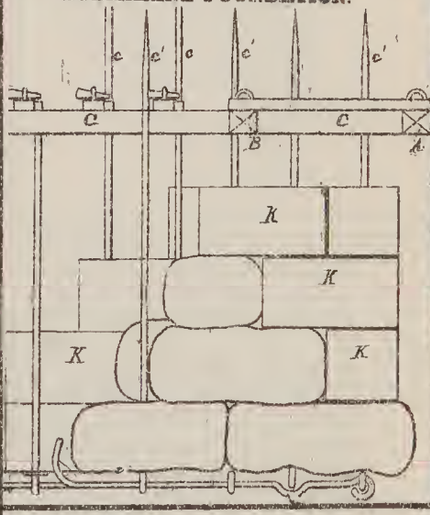
92,032,
JOSEPH FOWLER.
COPYING-PRESSES.



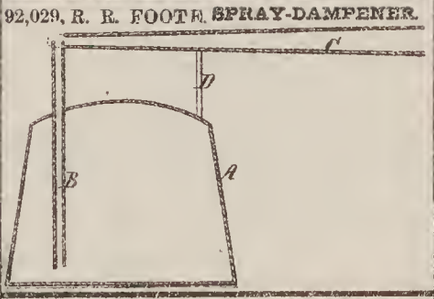
92,024, ROBERT DUNLAP, 1st.
POTATO-DIGGER.



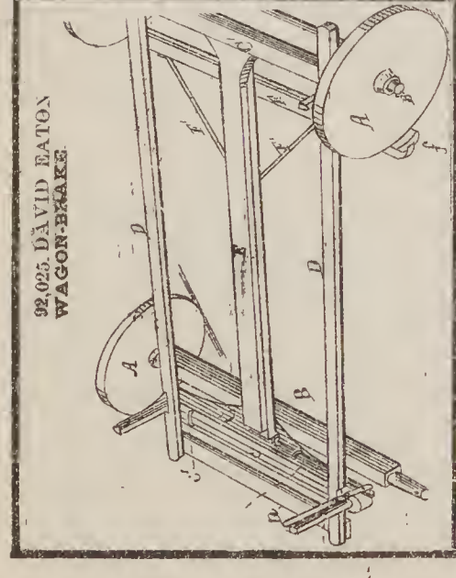
92,033, WM. H. FOYE.
SUBMARINE FOUNDATION.

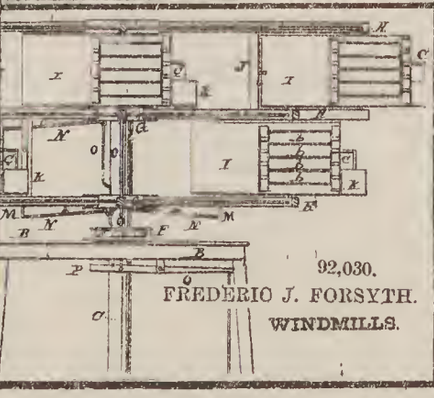


92,029, R. R. FOOTE. SPRAY-DAMPENER.

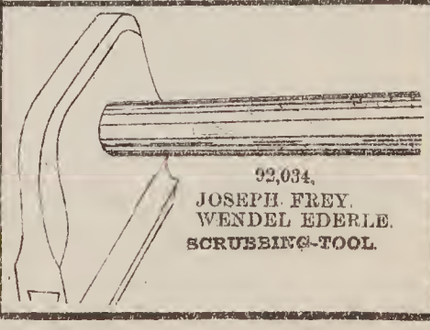


92,025, DAVID EATON
WAGON-BRAKE.



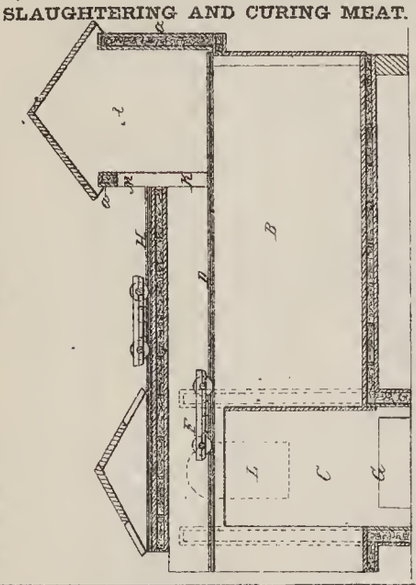


92,030.
FREDERIC J. FORSYTH.
WINDMILLS.

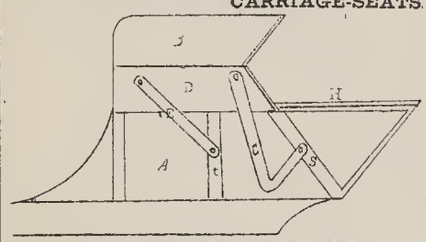


92,034,
JOSEPH FREY.
WENDEL EDERLE.
SCRUBBING-TOOL.

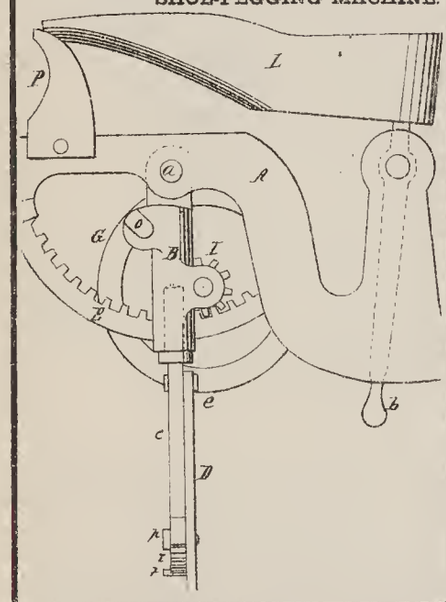
92,035, G. W. FULTON. APPARATUS FOR SLAUGHTERING AND CURING MEAT.



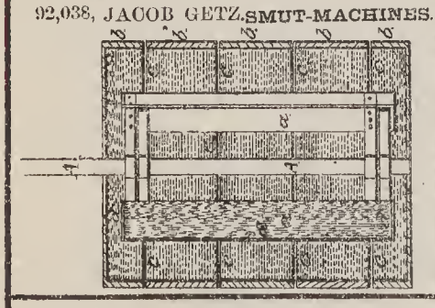
92,036, JOHN GALE. MOSES B. AMES. CARRIAGE-SEATS.



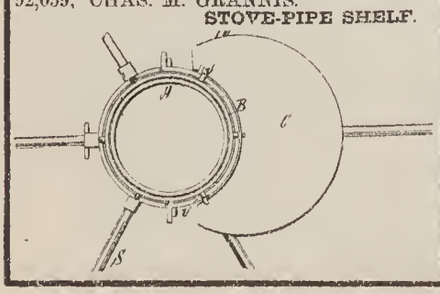
92,037, ALPHEUS C. GALLAHUE. SHOE-PEGGING MACHINE.



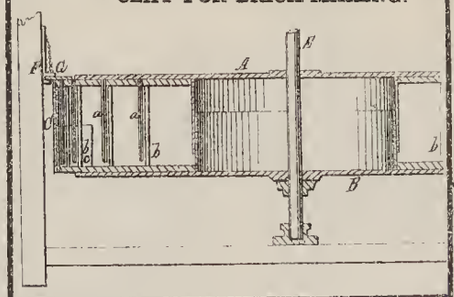
92,038, JACOB GETZ. SMUT-MACHINES.



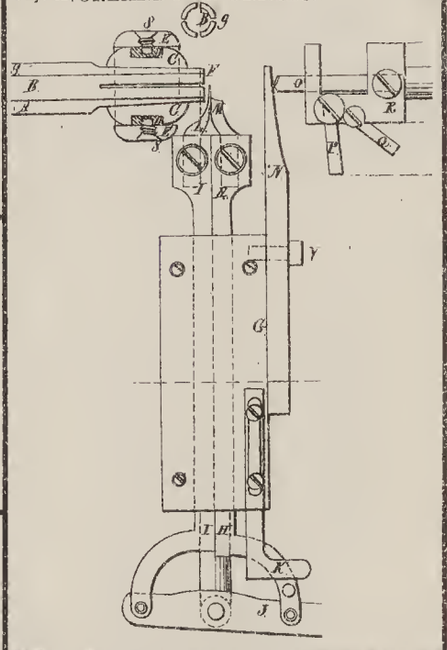
92,039, CHAS. M. GRANNIS. STOVE-PIPE SHELF.



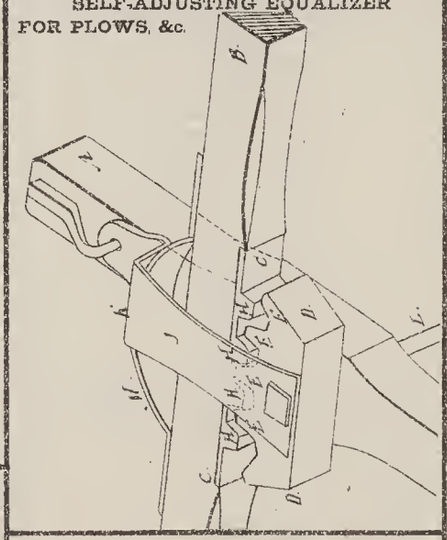
92,040, W. N. GRAVES. MACHINE FOR PREPARING CLAY FOR BRICK-MAKING.



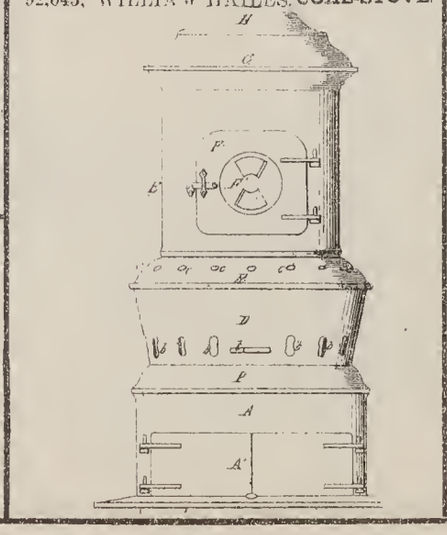
92,041, ORLANDO M. GRIMES. LATHES.



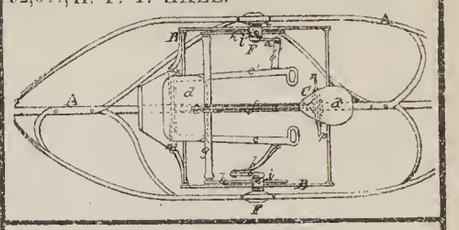
92,042, JOHN T. HAGERTY. SELF-ADJUSTING EQUALIZER FOR PLOWS, &c.



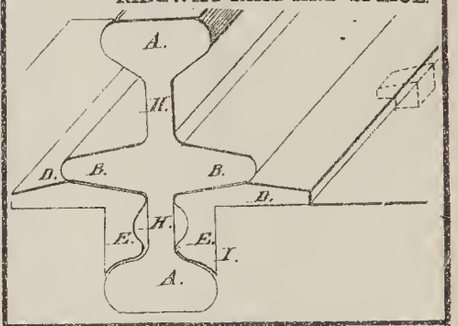
92,043, WILLIAM HAILES. COAL-STOVE.



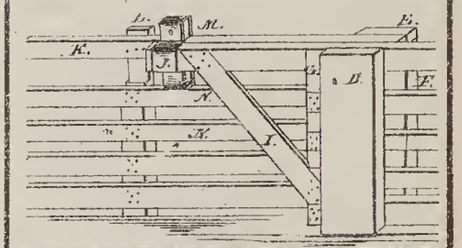
92,044, H. F. T. HALE. VELOCIPEDES.



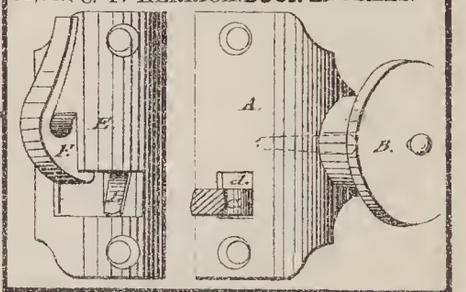
92,045, JOSEPH HALL. DANIEL HALL. RAILWAY-RAIL AND SPLICE.



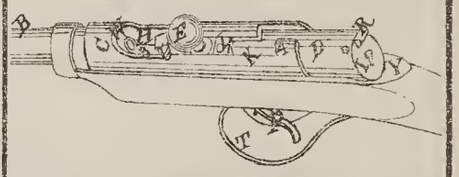
92,046, CALVIN HART. FARM-GATES.



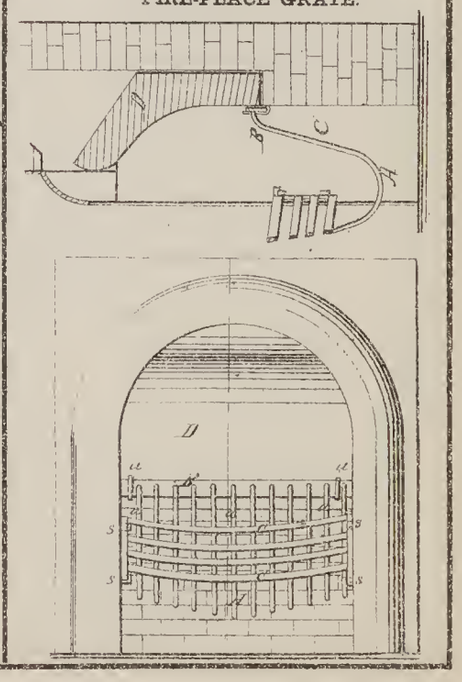
92,047, C. F. HERRICK. DOOR-LATCHES.



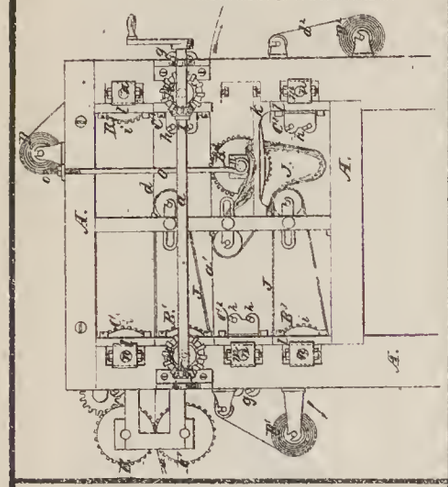
92,048, MATHIAS J. HINDEN. BREECH-LOADING FIRE-ARMS.



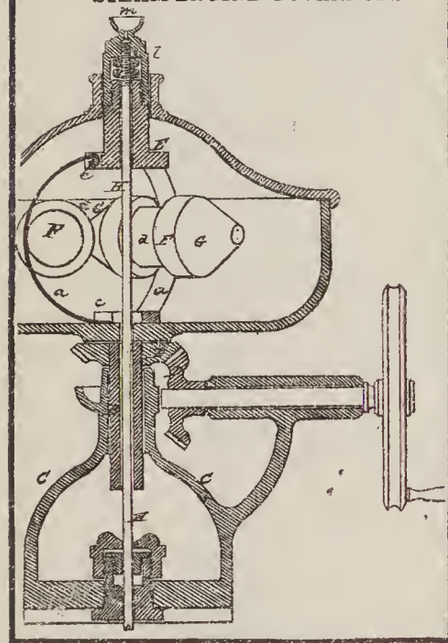
92,049, G. W. HINMAN. FIRE-PLACE GRATE.



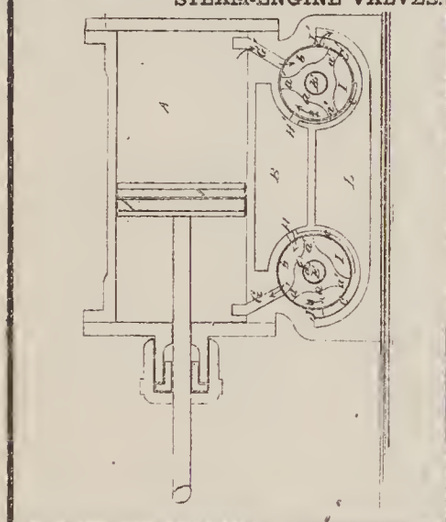
92,050, RICHD. M. HOE.
STEPHEN D. TUCKER.
PRINTING-PRESSES.



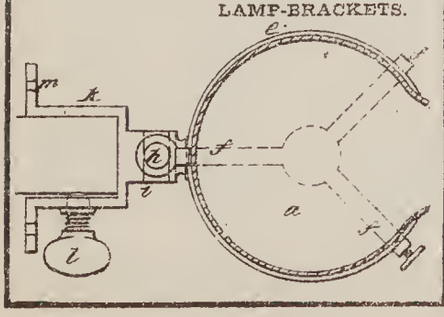
92,051, WILLIAM H. HOWLAND.
STEAM-ENGINE GOVERNORS.



92,052, WILLIAM H. HOWLAND.
STEAM-ENGINE VALVES.

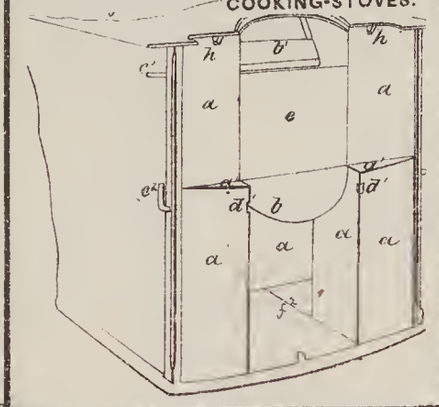


92,053 T. A. HUNTER.
JOHN BLEWITT.
LAMP-BRACKETS.

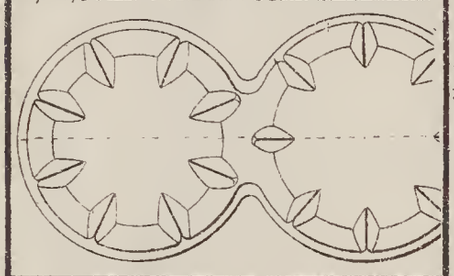


92,054, JACOB JAMESON.
FLUX FOR MANUFACTURING STEEL.

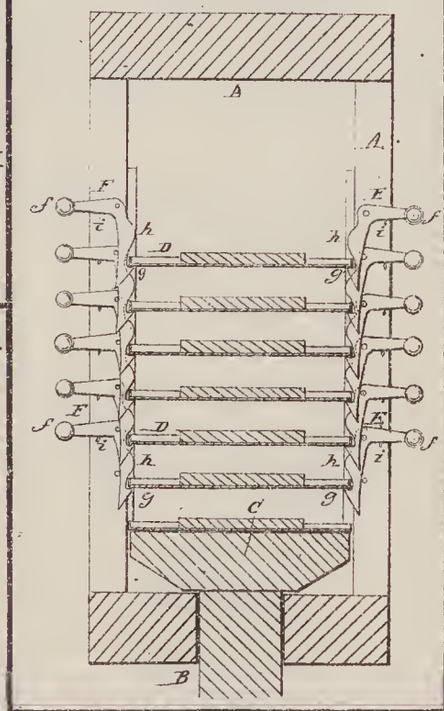
92,055, BENJAMIN F. JOHNSON,
COOKING-STOVES.



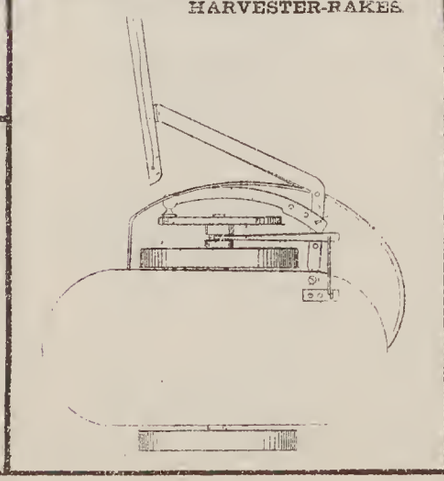
92,056, JOHN JORDAN. **CORN-SHELLERS.**



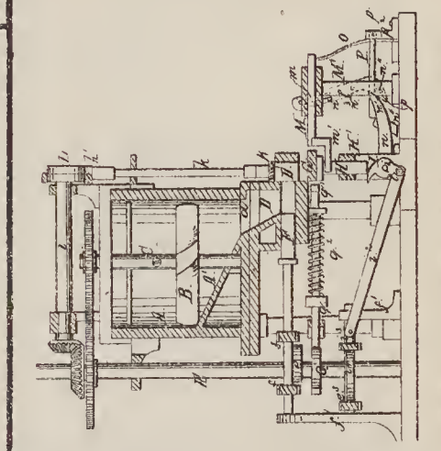
92,057, AGUR JUDSON.
STEPHEN A. FARRINGTON.
HYDRAULIC PRESSES.



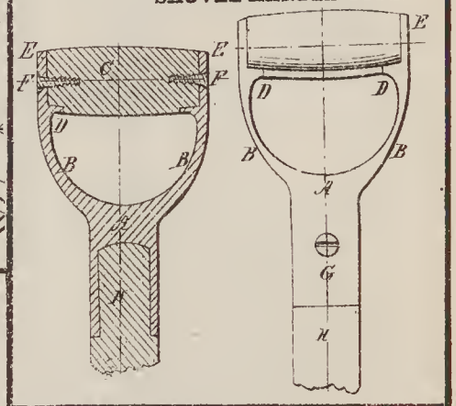
92,058, WM. W. KINGSBURY.
HARVESTER-RAKES.



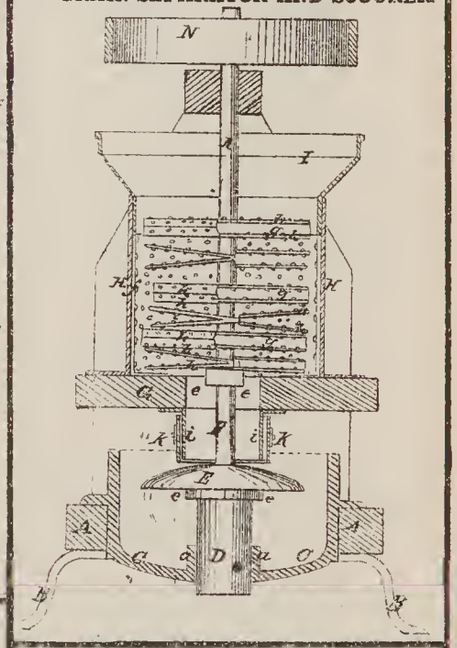
92,059, JOSEPH KLINKHARDT.
BRICK-MACHINE.



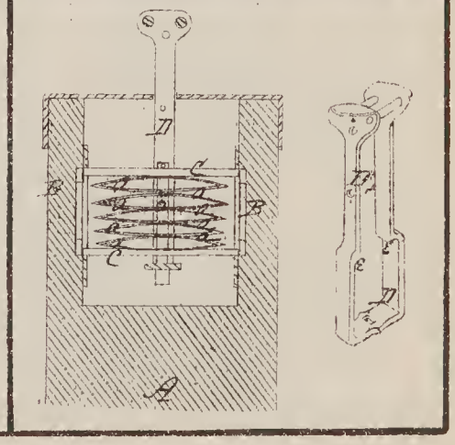
92,060, S. M. KNAPP.
JOSEPH SWITTER.
SHOVEL-HANDLE TOPS.



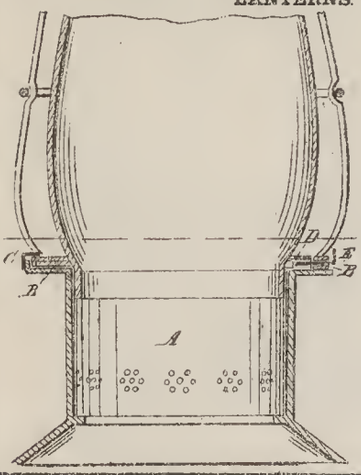
92,061, W. C. KNOX.
GRAIN-SEPARATOR AND SCOURER.



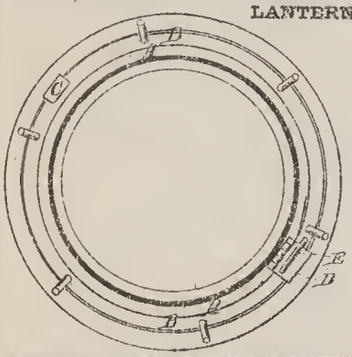
92,062, WENZEL KOTZUM. **DRAW-BAR.**



92,063. THOMAS LANGSTON.
LANTERNS.

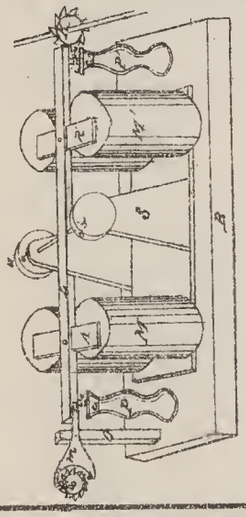


92,064, THOMAS LANGSTON.
LANTERNS.

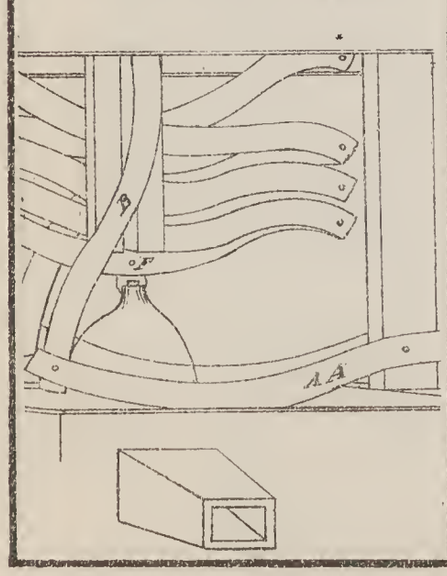


92,065, REUBEN LIGHTHALL.
COMPOUND TO BE USED IN THE CURE OF RHEUMATISM.

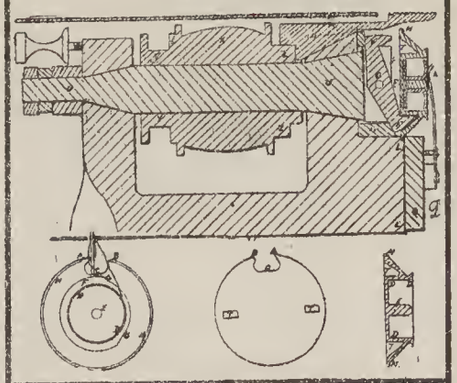
92,066, L. T. LINDSEY.
ELECTRO-MAGNETIC MOTORS.



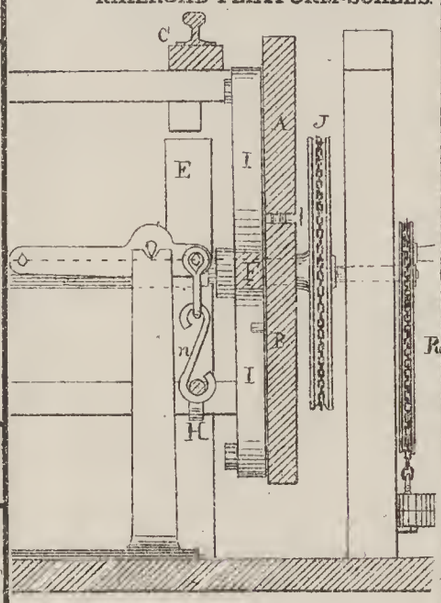
92,067, ZEPHANIAH LOCKWOOD.
WATER-ELEVATORS.



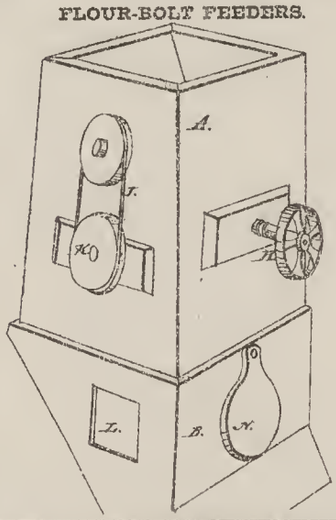
92,068, DANIEL MACPHERSON.
SEWING-MACHINE.



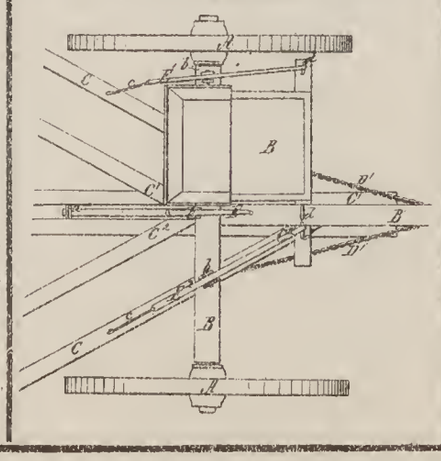
92,069, WM. MAGUIRE.
RAILROAD PLATFORM-SCALES.



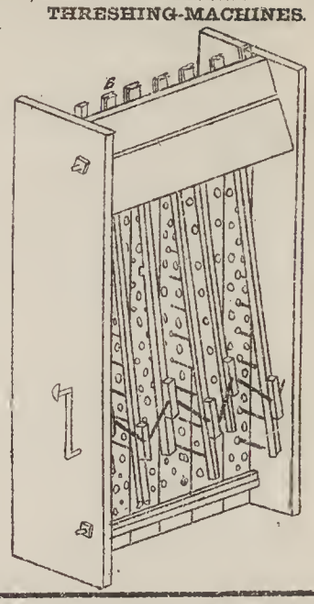
92,070, JOHN MALLIN.
FLOUR-BOLT FEEDERS.



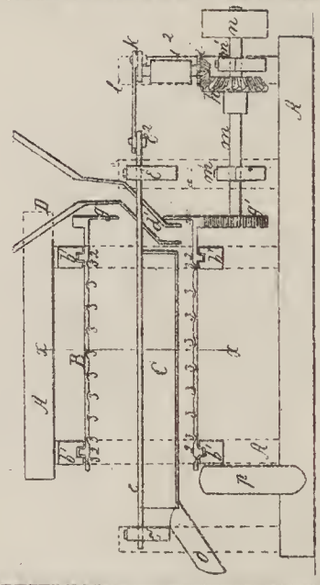
92,071, M. R. MARCELL. HARROW.



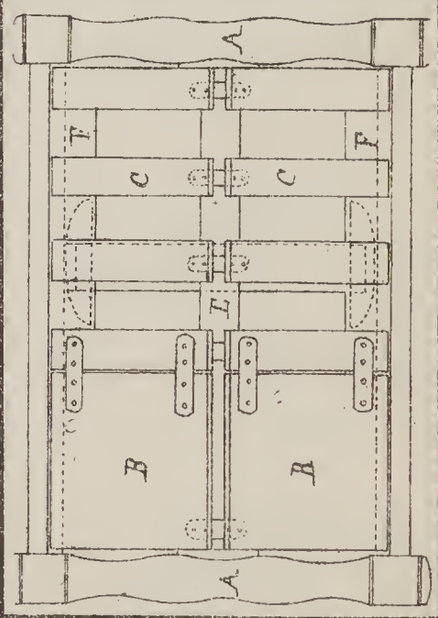
92,072, ISAAC W. MARTIN.
THRESHING-MACHINES.



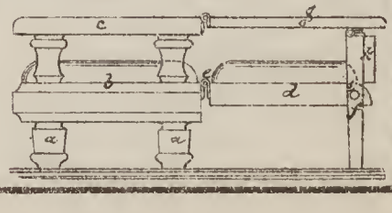
92,073, FREDK. W. MASE.
COCKLE-SEPARATING MACHINE.



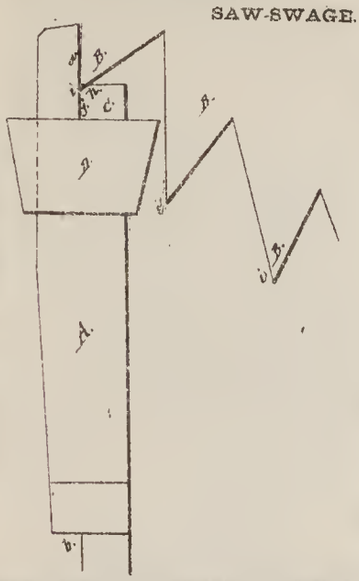
92,074, ABEL MATSON. BED-BOTTOM.



92,075. JAMES S. McCURDY.
BEDSTEAD AND SOFA OR CHAIR.

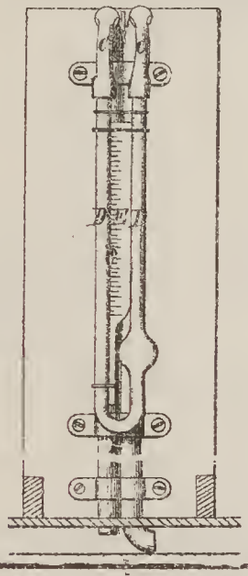


92,076, JOHN McDONALD.
SAW-SWAGE.

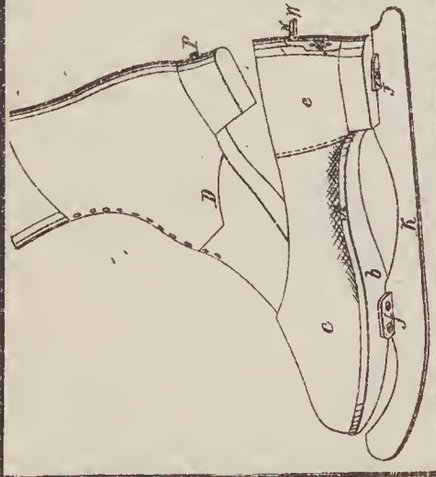


92,077, EDWARD N. McKIMM. HOWARD W. BENDER.
FERTILIZING-COMPOUND.

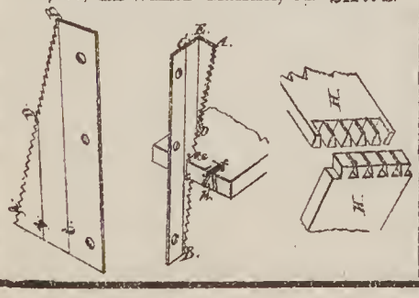
92,078, HENRY METCALF.
SPEED-INDICATOR FOR VESSELS.



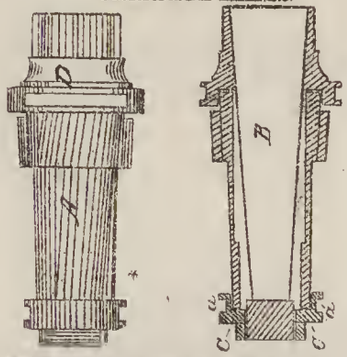
92,079, CHARLES F. W. MEYER.
SKATING-SHOE.



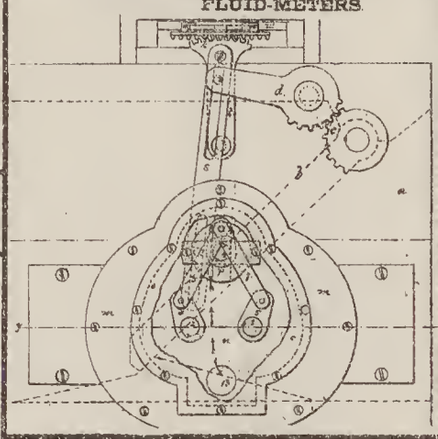
92,080, EDWARD MIALL, JR. SAWS.



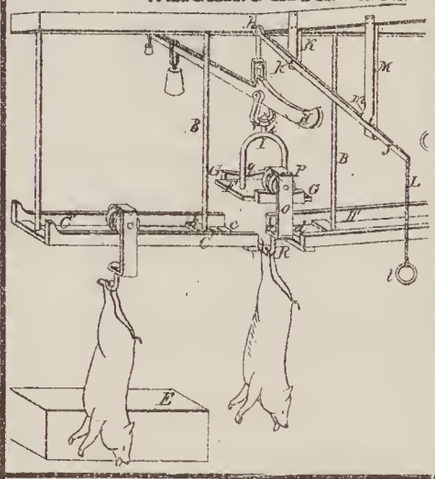
92,081, JAMES H. MOFFETT.
CARRIAGE-AXLES.



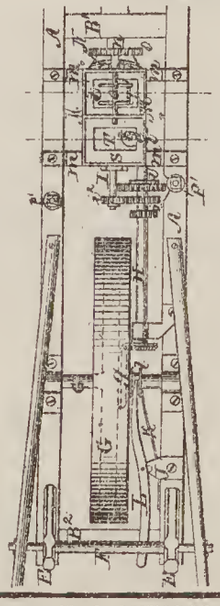
92,082, CHARLES MOORE.
FLUID-METERS.



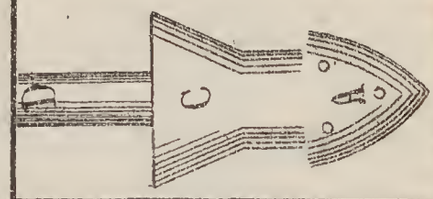
92,083, THOMAS MORRISON.
WEIGHING-APPARATUS.



92,084, GEO. W. MOYERS.
CORN-PLANTER.

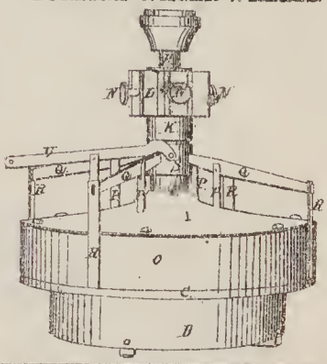


92,085, N. Q. MUNGER, G. B. POMEROY.
INSTRUMENTS FOR RELIEVING CHOKE AND BLOAT IN CATTLE.

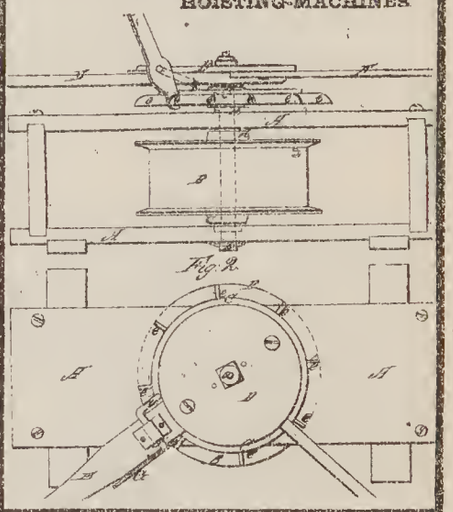


92,086, WILLIAM B. MYRES.
MEDICAL COMPOUND.

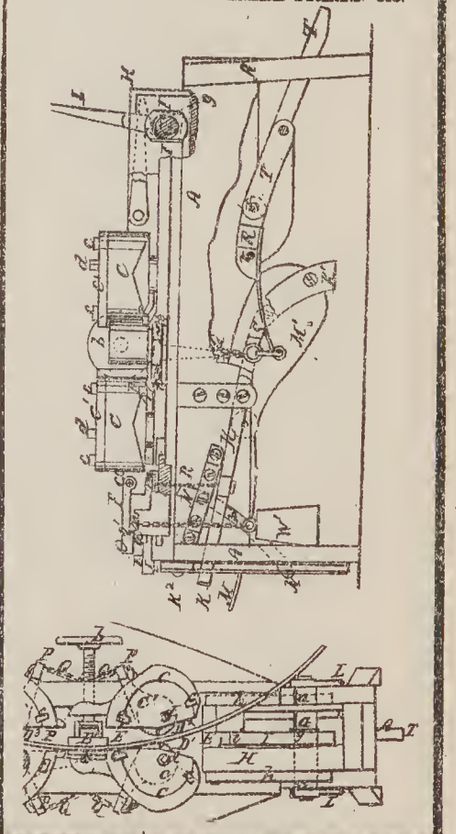
92,087, JAMES NEWMAN.
TURBINE WATER-WHEELS.



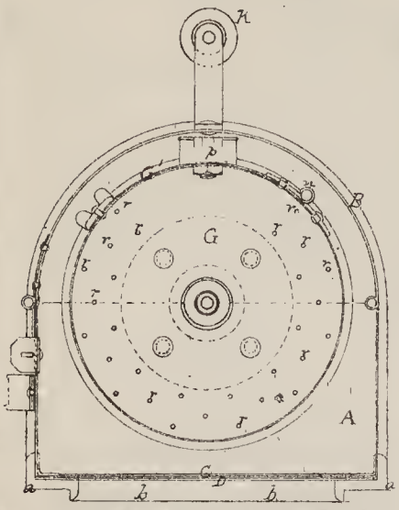
92,088, J. S. PARK.
HOISTING-MACHINES.



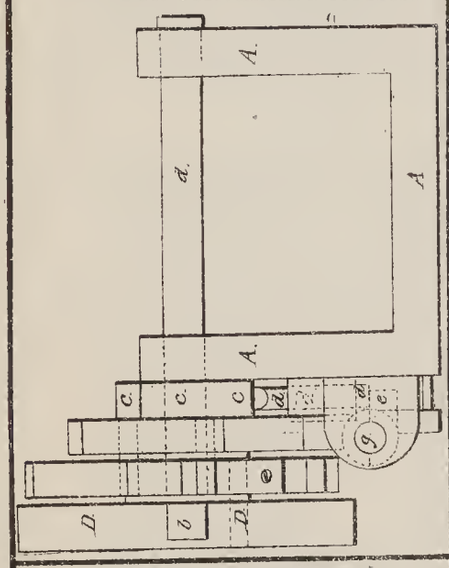
92,089, ORLANDO PATEE.
MACHINE FOR UPSETTING TIRES, AXLE-TREES, &c.



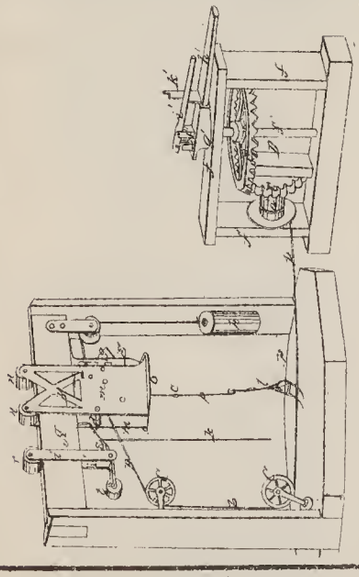
92,090, JAMES B. PEAKE, JAMES A. LUSBY.
COFFEE-ROASTER.



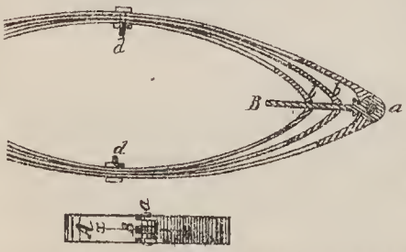
92,091, ELIJAH S. PIERCE. MECHANISM FOR CONVERTING MOTION.



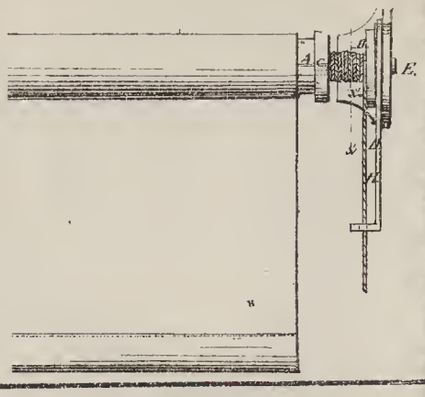
92,092, HENRY G. PORTER.
ELEVATORS.



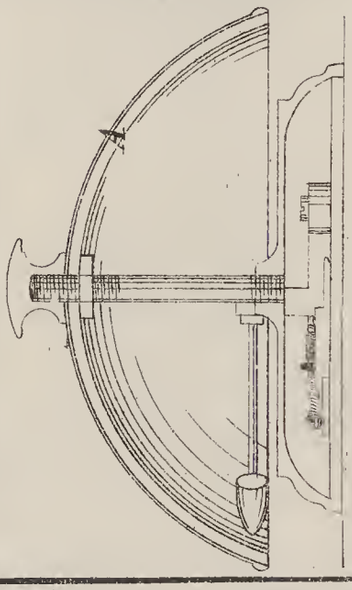
92,093, BENJAMIN F. POWER.
CARRIAGE-SPRING.



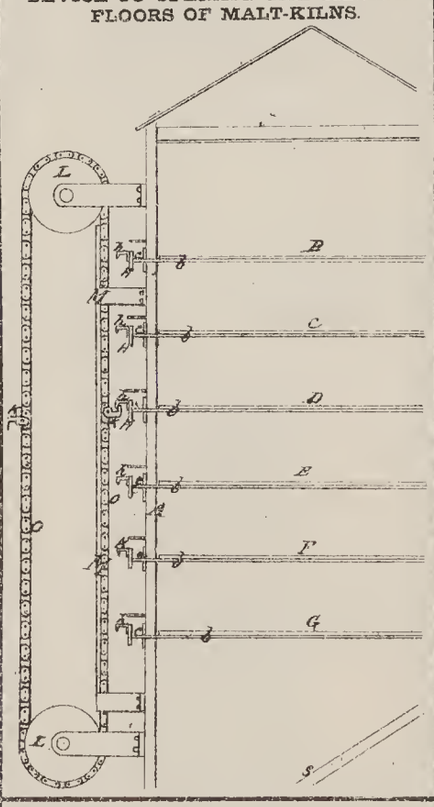
92,094, R. B. PRINDLE.
CURTAIN-FIXTURE.



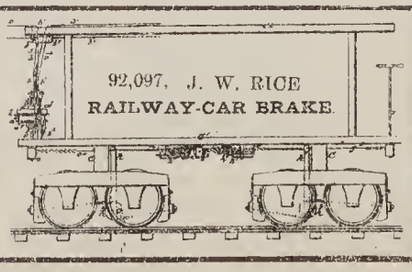
92,095, FRANCOIS RAYMOND.
ENAMELLED BELL.



92,096. JOHN C. RHODES.
DEVICE TO OPERATE THE TILTING FLOORS OF MALT-KILNS.

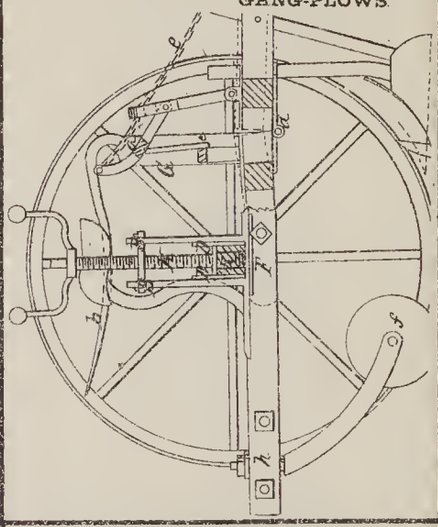


92,097, J. W. RICE
RAILWAY-CAR BRAKE.

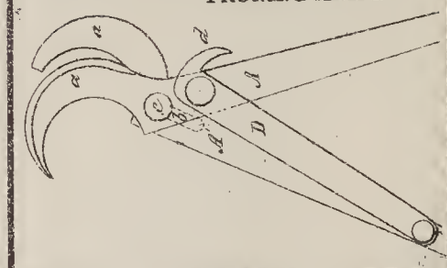


92,098, EDWIN T. RICE.
PROCESS OF TREATING VEGETABLE FIBRES.

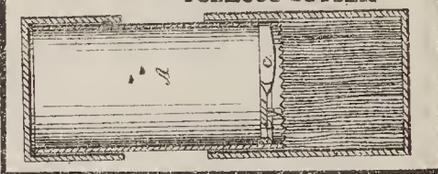
92,099, WILLIAM B. RICE.
GANG-PLOWS.



92,100, WILLIAM RICHARD.
PRUNING-KNIFE.

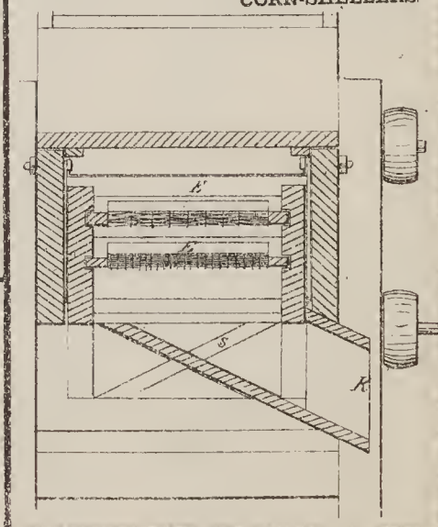


92,101, T. M. RICHARDSON.
TOBACCO-CUTTER.

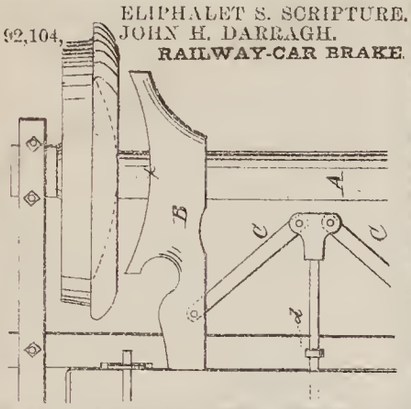


92,102, CHARLES H. ROBINSON.
COMBINED DRAWER-PULL AND LABEL.

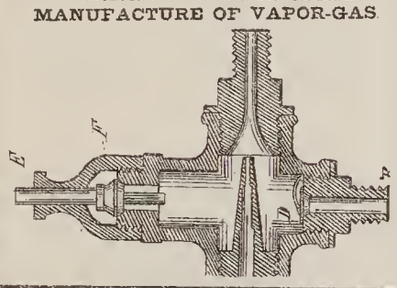
92,103, JAMES M. ROSS.
CORN-SHELLERS.



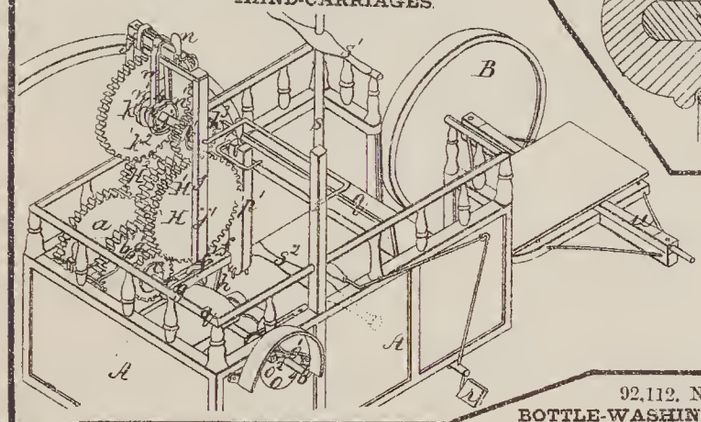
92,104, ELIPHALET S. SCRIPTURE, JOHN H. DARRAGH. RAILWAY-CAR BRAKE.



92,105, CHARLES A. SEELY. MANUFACTURE OF VAPOR-GAS.

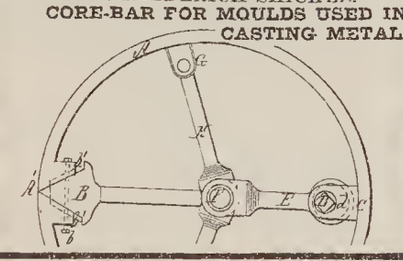


92,106, D. S. SHANABROOK. HAND-CARRIAGES.

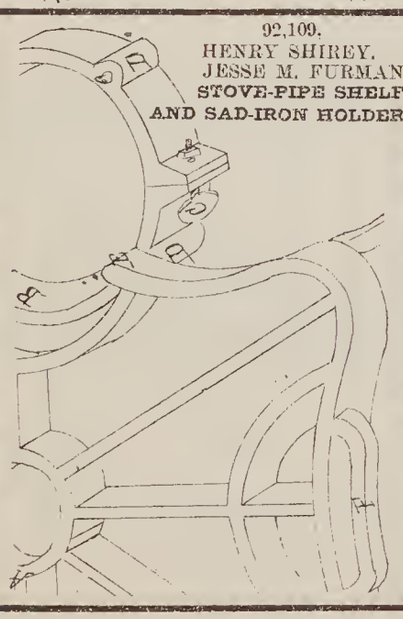


92,107, JOHN SHAPLEY, A. D. HUTCHINSON. MEDICINE OR CORDIAL.

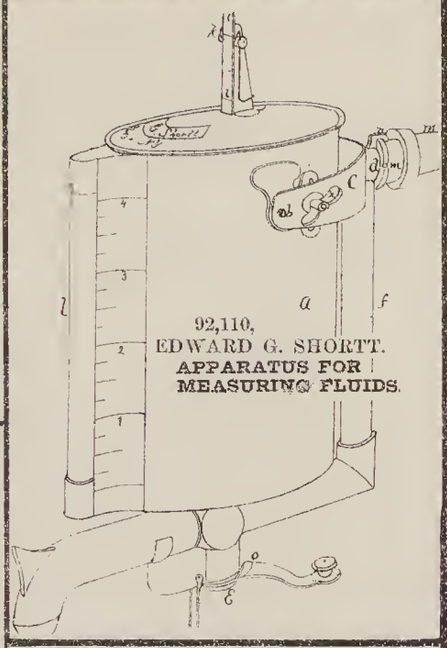
92,108, FREDERICK SHICKLE. CORE-BAR FOR MOULDS USED IN CASTING METAL.



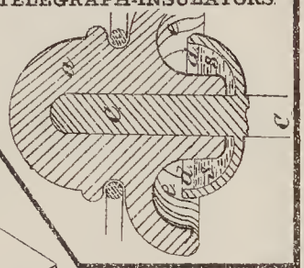
92,109, HENRY SHIREY, JESSE M. FURMAN. STOVE-PIPE SHELF AND SAD-IRON HOLDER.



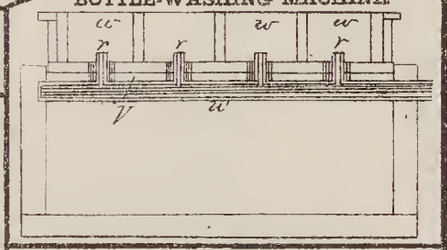
92,110, EDWARD G. SHORTT. APPARATUS FOR MEASURING FLUIDS.



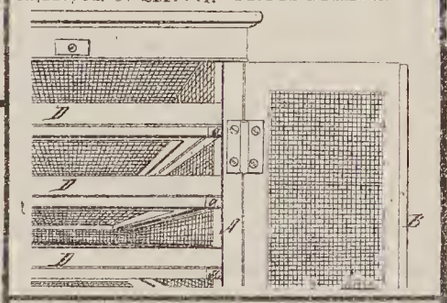
92,111, W. EDGAR SIMONDS. TELEGRAPH-INSULATORS.



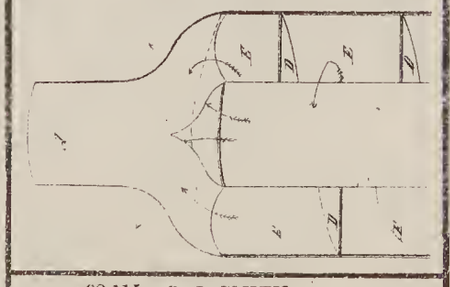
92,112, N. H. SIRRELLE. BOTTLE-WASHING MACHINE.



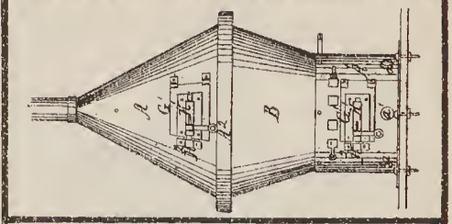
92,113, A. J. SMITH. FRUIT-DRIERS.



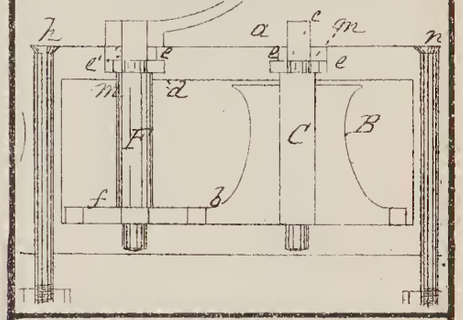
92,114, CHARLES D. F. SMITH. STOVE-PIPE DRUMS.



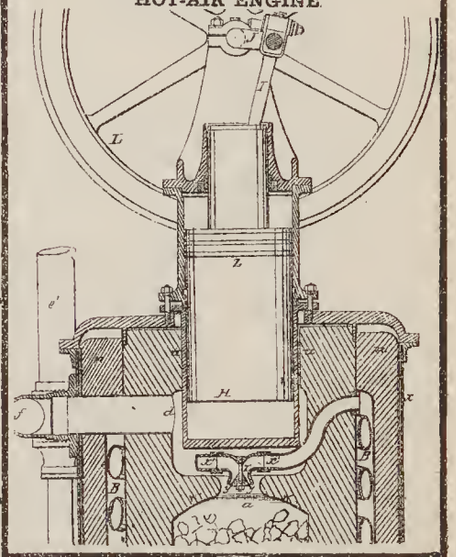
92,115, C. J. SMITH. SAFETY-STOVE FOR RAILROAD-CARS.



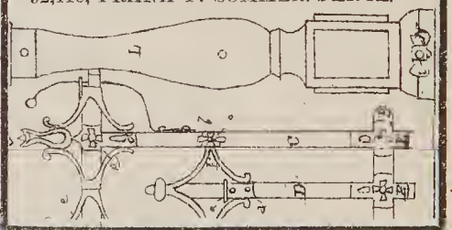
92,116, D. SNEDEKER. COMBINED CLEAT AND CAPSTAN.



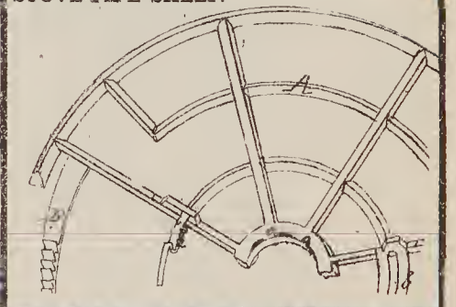
92,117, LARS ALBERT LEONARD SÖDERSTRÖM. HOT-AIR ENGINE.



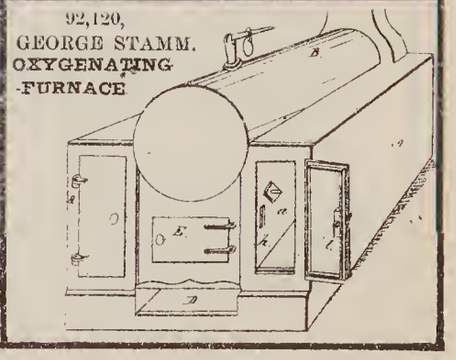
92,118, FRANK F. SOMMER. FENCE.



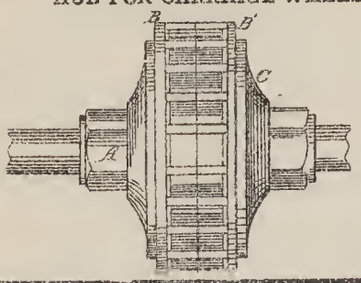
92,119, R. H. SPRINGSTEED. STOVE-PIPE SHELF.



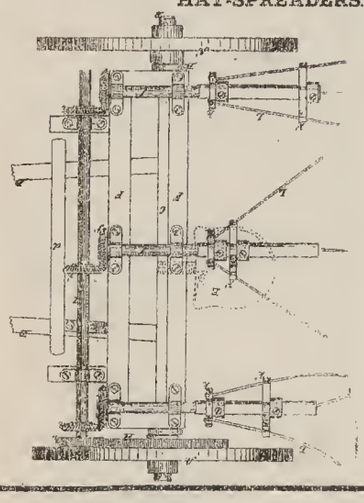
92,120, GEORGE STAMM. OXYGENATING FURNACE.



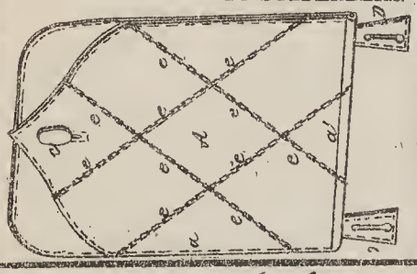
92,121, S. T. F. STERICK.
HUB FOR CARRIAGE-WHEELS.



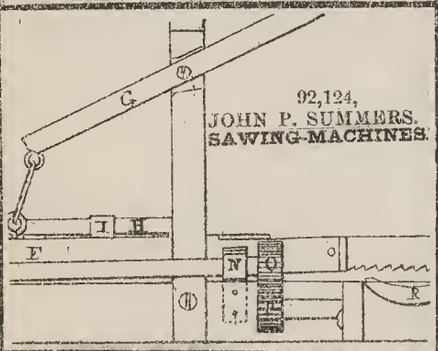
92,122, J. O. STODDARD.
HAY-SPREADERS.



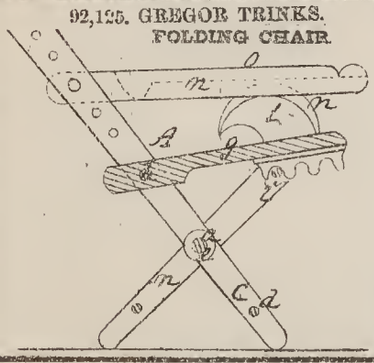
92,123, J. SUMMERS.
SAFETY-POCKETS FOR ATTACHMENT TO SUSPENDERS.



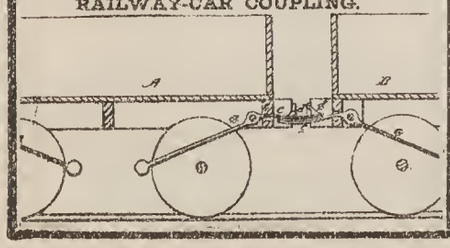
92,124, JOHN P. SUMMERS.
SAWING-MACHINES.



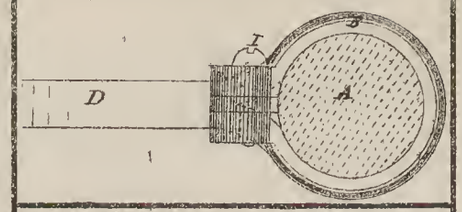
92,125. GREGOR TRINKS.
FOLDING CHAIR.



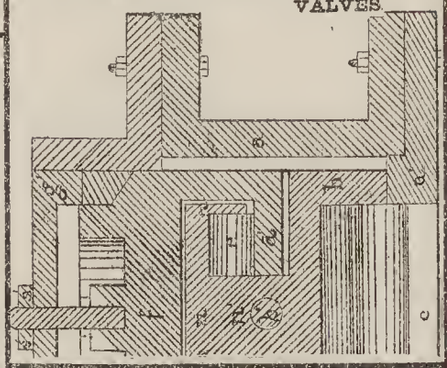
92,126, JAMES TURNBULL.
RAILWAY-CAR COUPLING.



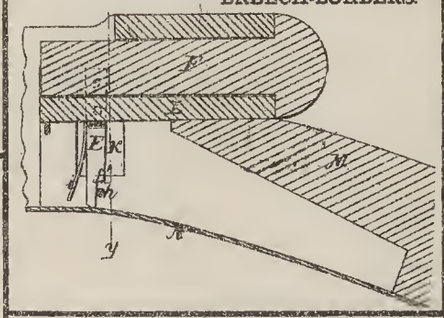
92,127, R. VORIS. NECK-YOKES.



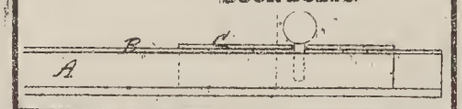
92,128. JOHN F. WALLACE.
STEAM-ENGINE SLIDE-BALANCE VALVES.



92,129, W. G. WARD.
BREECH-LOADERS.



92,130, ALMON F. WARREN.
DOOR-BOLTS.



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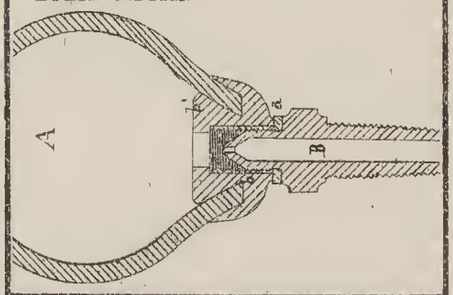
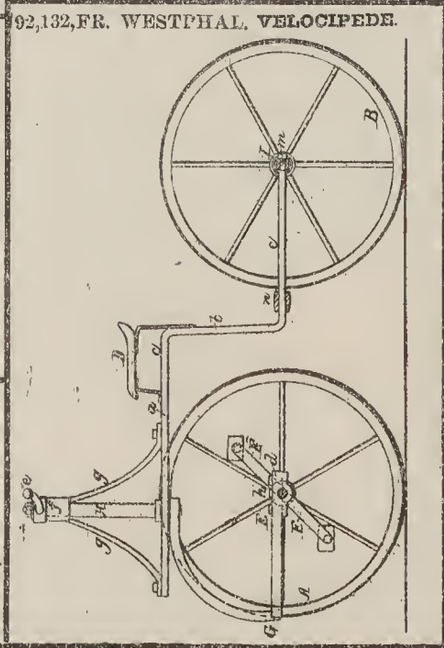
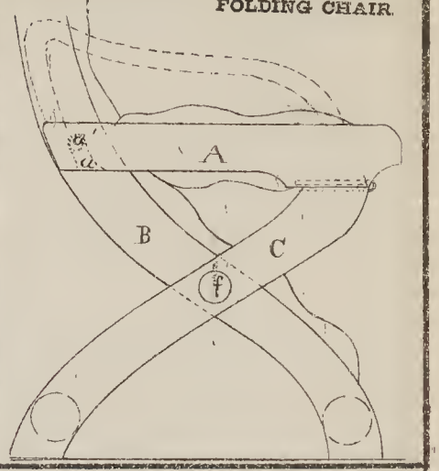
LUBRICATORS.



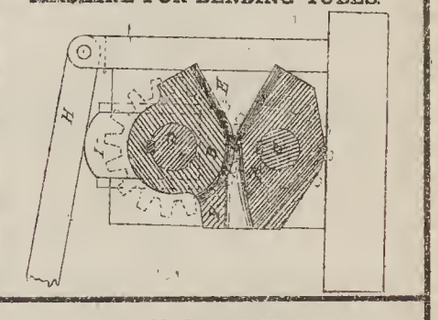
92,132, FR. WESTPHAL. VELOCIPEDE.



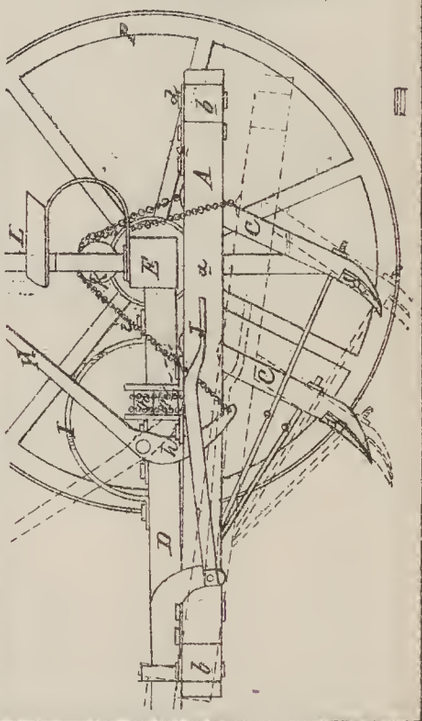
92,133. CHARLES A. WIEDEMANN.
FOLDING CHAIR.



92,134, MOSES G. WILDER.
MACHINE FOR BENDING TUBES.

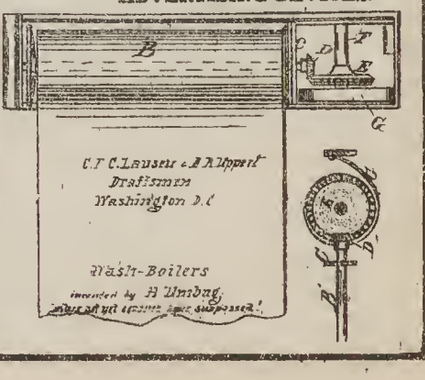


92,135, NATHANIEL WILSON.
SULKY-CULTIVATOR.



92,136, DAVID WILLIAMSON.
MANUFACTURE OF METALLIC CARTRIDGE-CASES.

92,137, RANSOM F. RANKIN.
ADVERTISING-DEVICES.



ILLUSTRATIONS OF PATENTS

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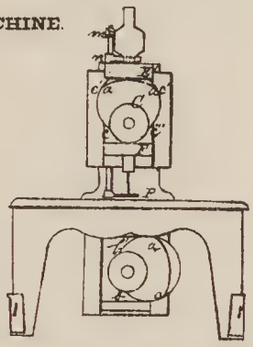
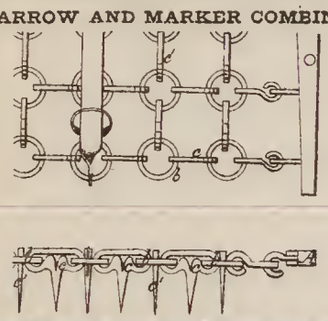
92,138, JOHN Q. ADAMS,

SEWING-MACHINE.



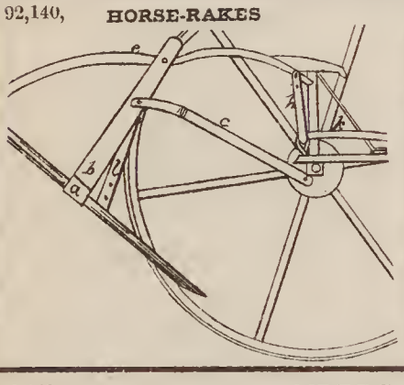
92,139, WILLIAM ADDLETON,

HARROW AND MARKER COMBINED.



FRANCIS M. ALLERTON

92,140, HORSE-RAKES

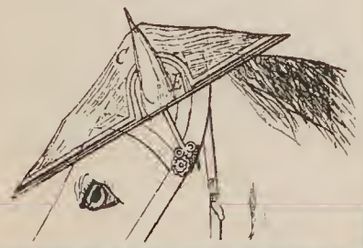


92,141, WILLIAM A. AMBERG,

PAPER-CLIPS.

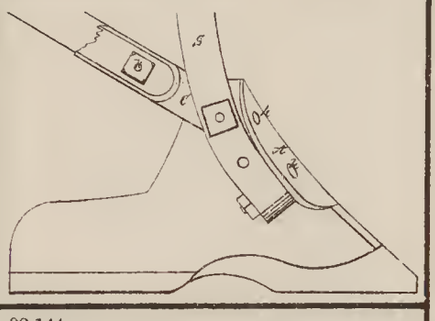
92,142, JOHN ANDERSON,

SHIELD FOR PROTECTING HORSES



WILLIAM J. ARRINGTON.

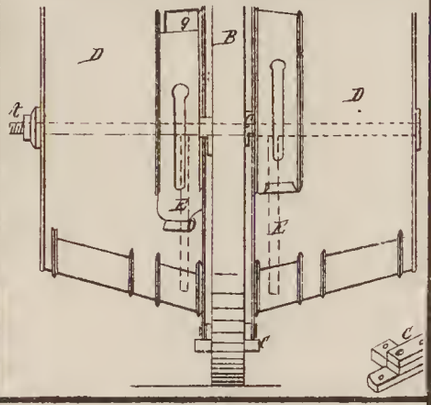
92,143, PLOWS.



92,144,

WILLIAM J. ARRINGTON,

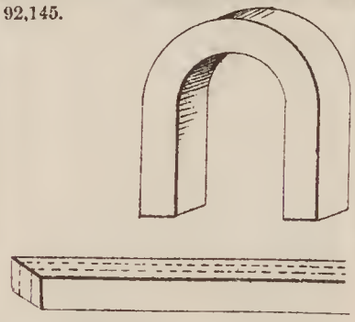
COTTON-SEED PLANTER AND DRILL.



SILAS M. BARRETT

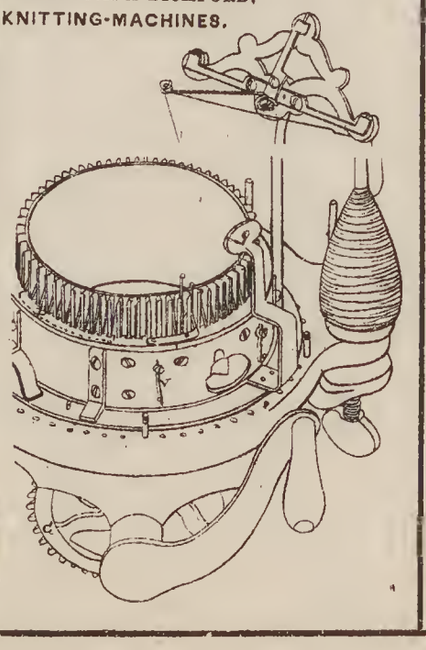
METHOD OF BENDING CHAIR-RIMS.

92,145.



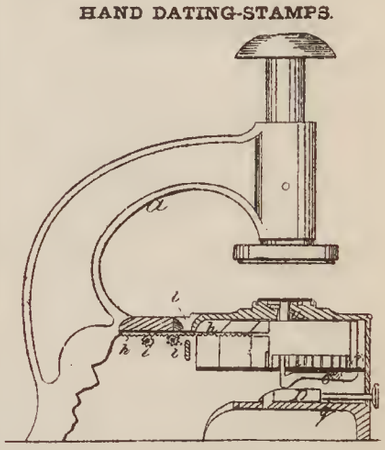
92,146, DANA BICKFORD,

KNITTING-MACHINES.



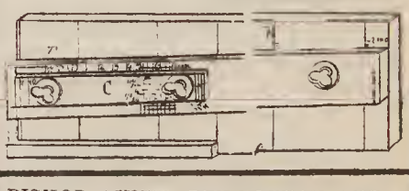
92,147, EDWARD BIERSTADT.

HAND DATING-STAMPS.



92,148, JOSEPH BIRKETT,

AXLE-GAUGES.

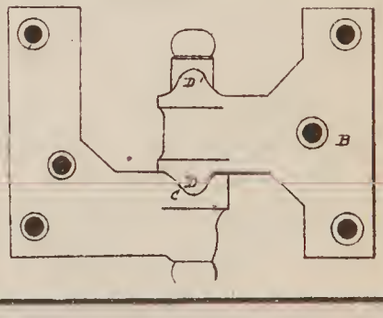


BISHOP, AIKEN, PEN-DLETON AND GATES.

92,149, CARD-CLOTHING.

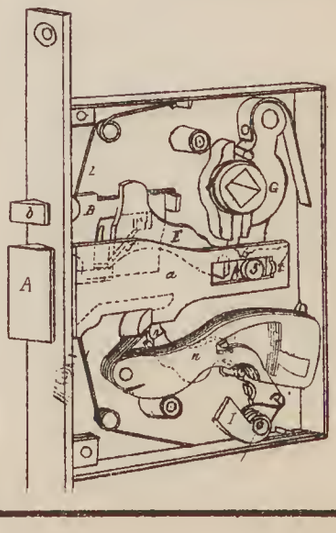
BOILEAU AND MESNIER,

92,150, HINGE.



92,151, ASA T. BROOKS,

KNOB-LATCHES.



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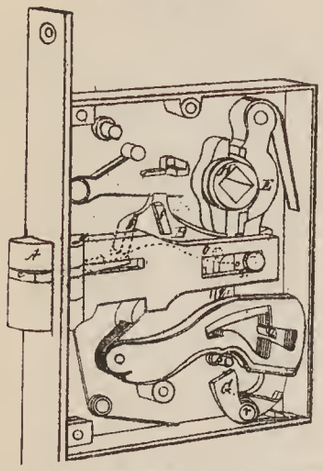
KNOB-LATCHES.



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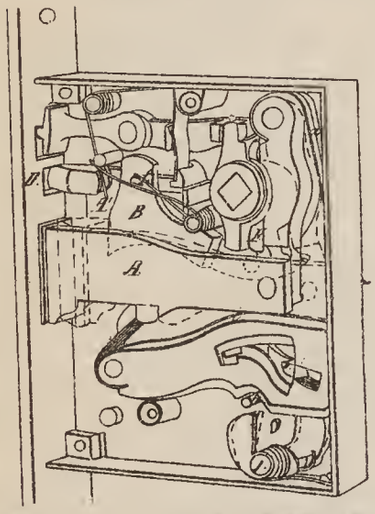
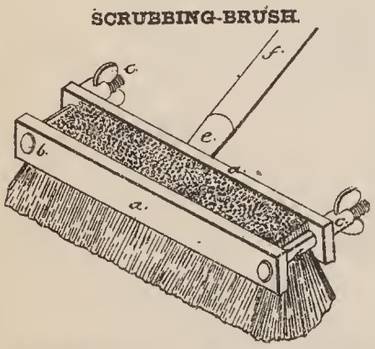
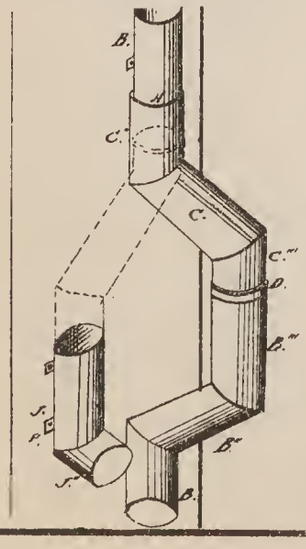
KNOB-LATCHES.



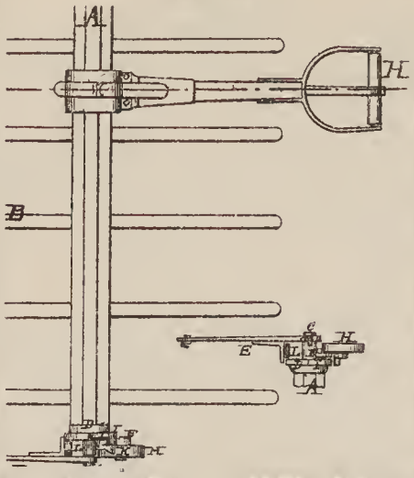
92,154, GEORGE W. BROWN,
SCRUBBING-BRUSH.



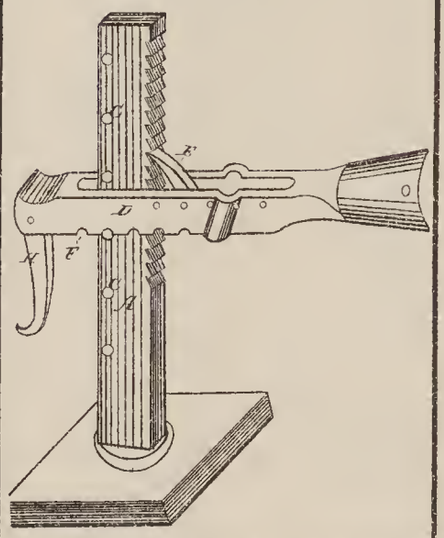
92,155, FRANCIS M. BUCKLES,
RAIN-WATER CONDUCTORS.



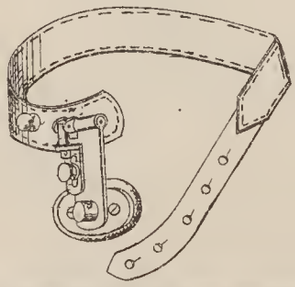
92,156, DANIEL BULL,
HORSE-RAKES.



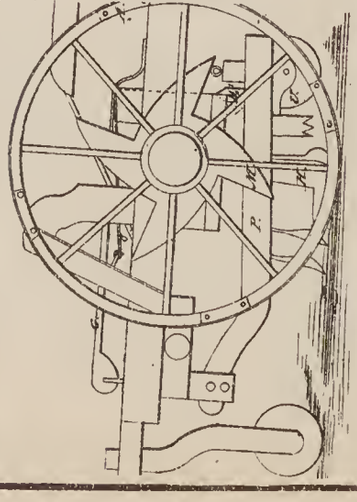
92,157, JOHN O. BURCH,
CARRIAGE-JACK.



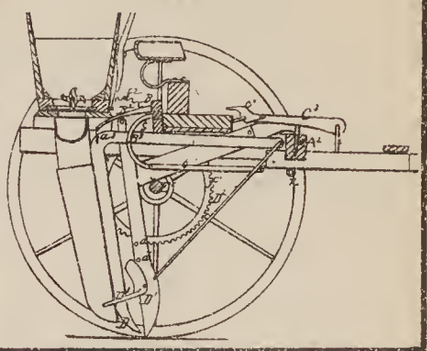
92,158, JOHN BURNHAM,
TRUSSES.



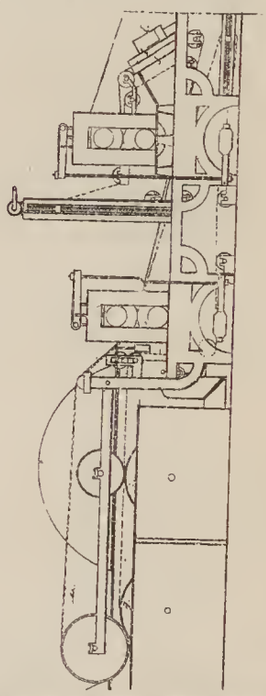
WALTER CALDWELL,
92,159, CORN-PLANTERS.



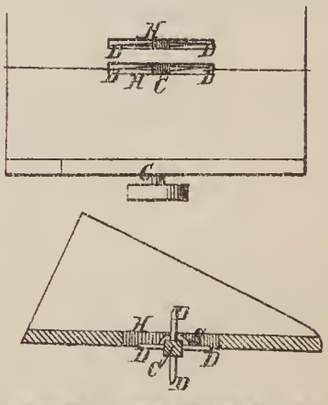
92,160, R. W. CAMPBELL,
WHEAT-DRILLS.



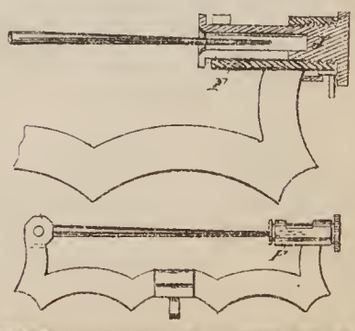
WELLINGTON CAMPBELL,
92,161, COMPOSITE PAPER.



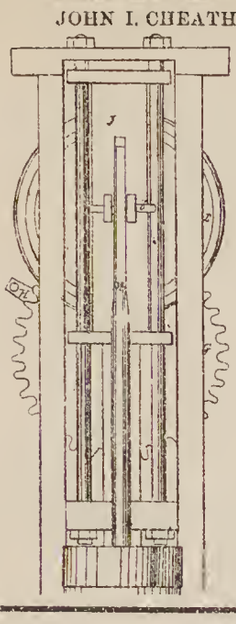
SANFORD CARTMEL,
BAND-CUTTERS 92,162,
FOR THRESHING-MACHINES.



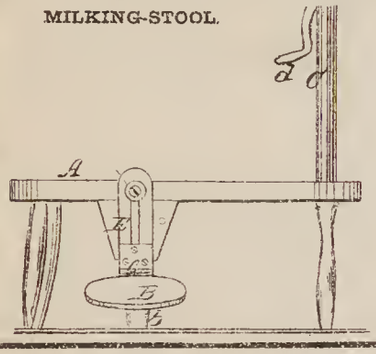
92,163. FREDERICK CATLIN, BREAST-PINS.



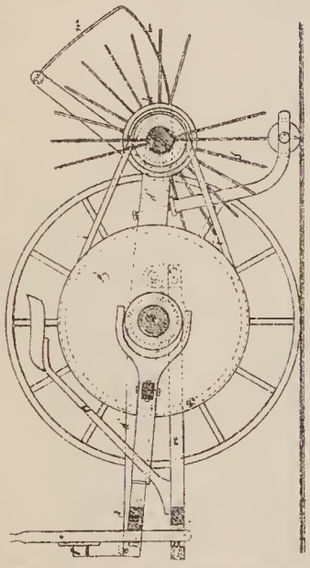
92,164, JOHN I. CHEATHAM, CHURNS.



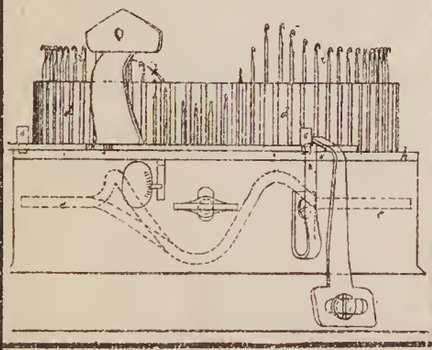
92,165, D. D. CHITTENDEN, MILKING-STOOL.



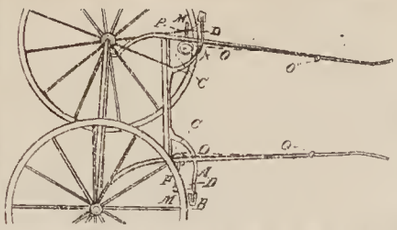
92,166, DANIEL B. CLEMENT, HAY-SPREADERS.



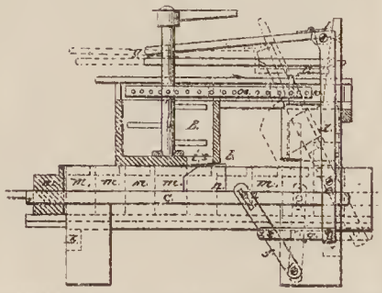
92,167, CHARLES G. COLE, CIRCULAR-KNITTING MACHINE.



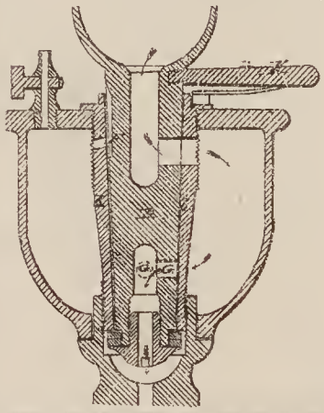
LEANDER T. CONANT, 92,168, WAGON-BRAKES.



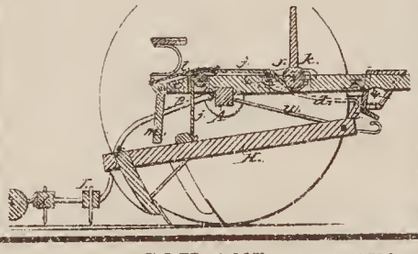
92,169, JACOB COOKE, BRICK-MACHINE.



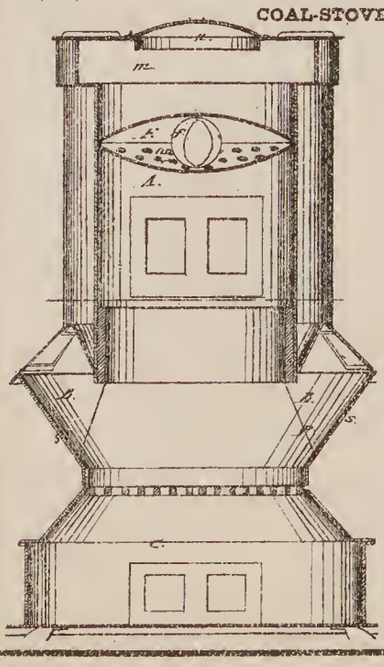
ROBERT AVIS COPELAND, 92,170, OIL AND TALLOW-CUP.



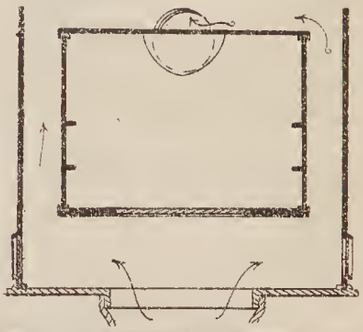
CHARLES M. CORNELL, 92,171, DROPPER AND CULTIVATOR.



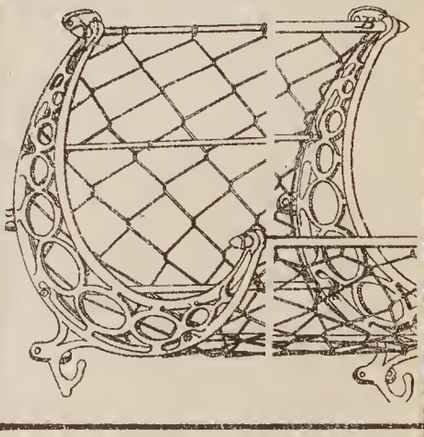
92,172, COX AND BROWN, COAL-STOVE.



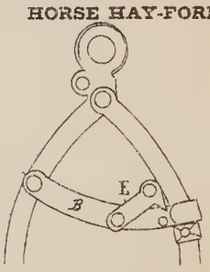
92,173, JOSEPH COX, PLATES FOR PARLOR-STOVES.



92,174, WILLIAM G. CREAMER, BASKET-RACK FOR RAILROAD-CARS.

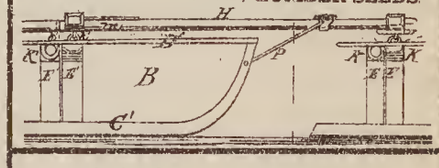


WILLIAM E. DERRICK, 92,175, HORSE HAY-FORKS.

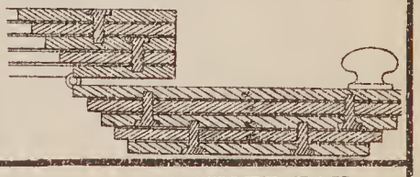


ENGELHORN, CLEMM, CARO, AND CARL CLEMM, 92,176, OBTAINING BENZOLE FROM COAL-GAS.

92,177, GEORGE ENGLE, LUMBER-SLEDS.

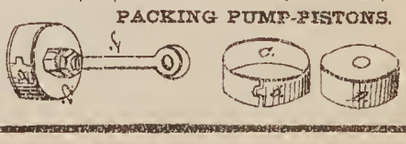


92,178, JOHN FARREL, CONSTRUCTION OF SAFES.

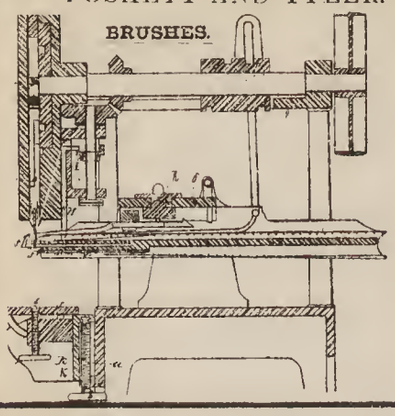


92,179, AUGUSTE FAU AND EUGENE FAU, CLEANING SKINS FOR TANNING.

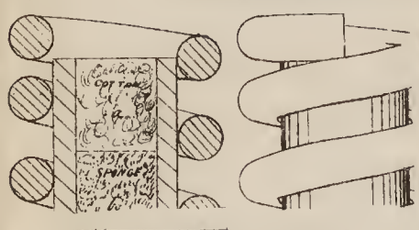
92,180, ELIAS T. FORD, PACKING PUMP-PISTONS.



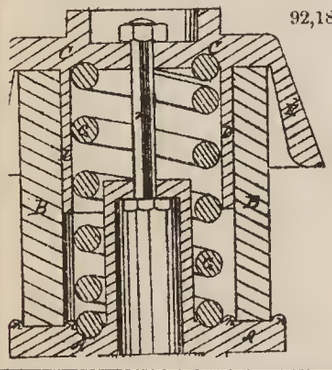
92,181, FOSKETT AND TYLER.
BRUSHES.



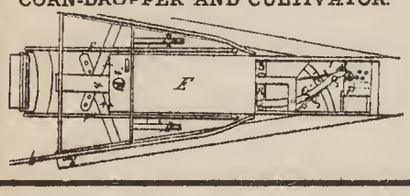
PERRY G. GARDINER,
92,182. RAILWAY-CAR SPRING.



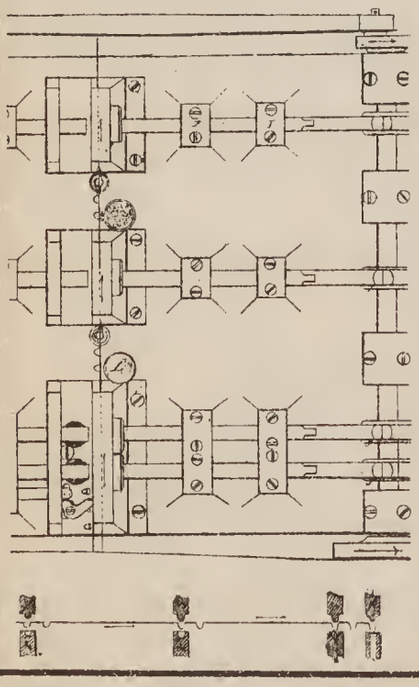
92,183,



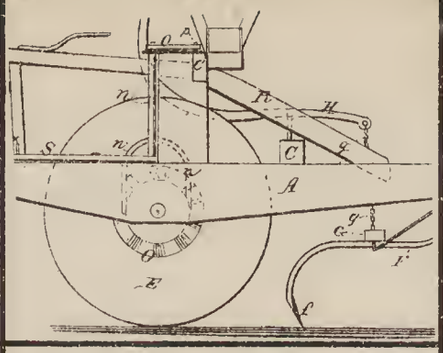
92,184, P. P. GARDNER,
CORN-DROPPER AND CULTIVATOR.



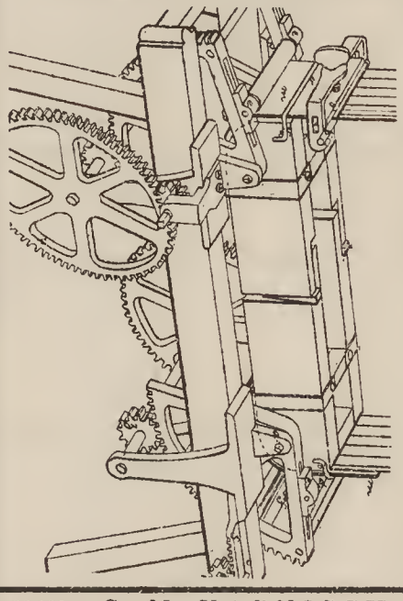
92,185, THOMAS GARRICK,
MACHINE FOR MAKING EYELETS.



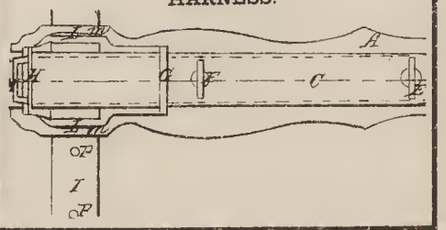
92,186, WILLIAM S. GROVER,
SEEDER, ROLLER, AND CULTIVATOR.



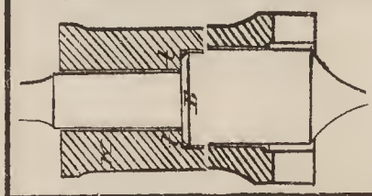
92,187, JAMES HANN,
MACHINERY FOR BENDING WOOD.



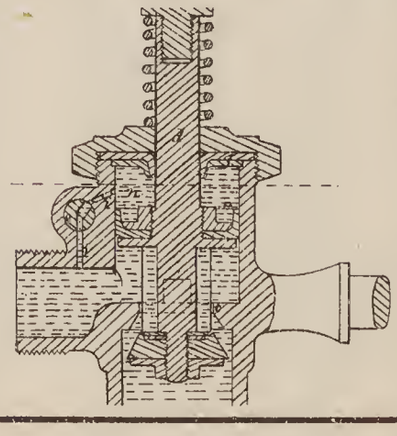
92,188, G. M. HARNISCH.
HARNESS.



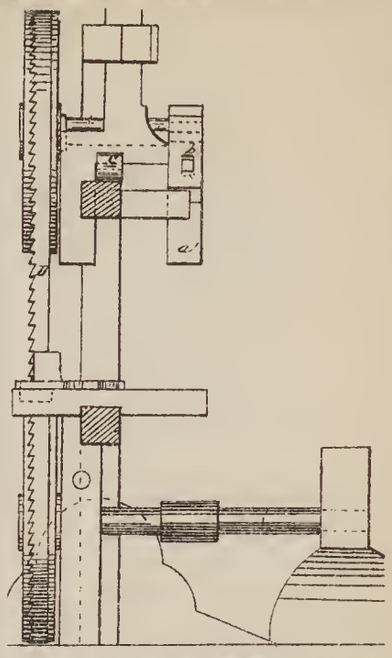
92,189. CYRUS HARRIS.
SKEWERS FOR SPEEDER-BOBBINS.



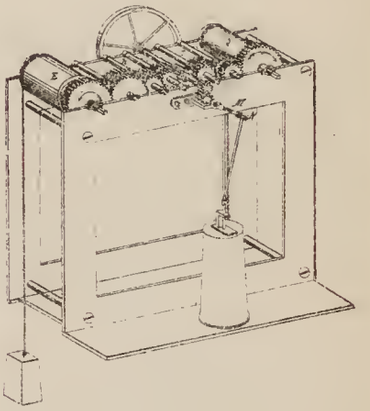
CHARLES HARRISON,
92,190, COCKS FOR WATER-CLOSETS.



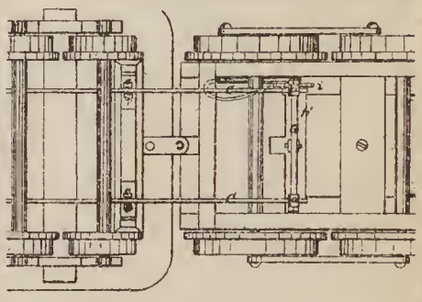
J. R. HOFFMAN.
92,191, SAW-MILLS.



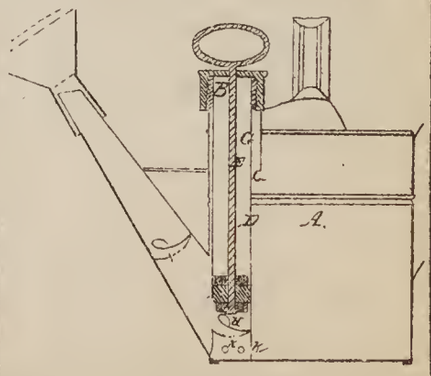
92,192, JAMES M. JOHNSON,
MECHANICAL MOVEMENT.



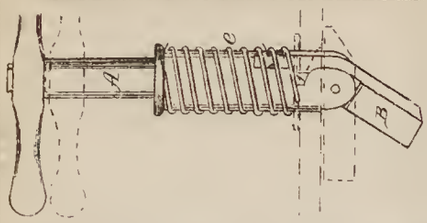
92,193, GARRET G. JONES,
LOCOMOTIVE STEAM-ENGINES.



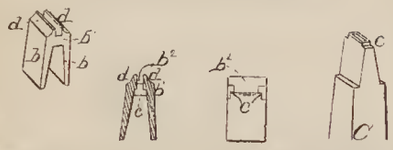
92,194, H. KAISER AND
A. KAISER. SPRINKLING-CAN.



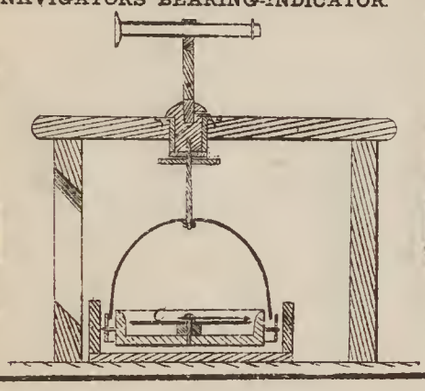
92,195. ARCHIBALD KELLY,
SHREDDING-AUGER FOR BARRELS.



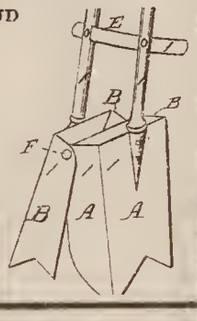
92,196, W. P. LATHROP,
KNIFE-HANDLE BOLSTER.



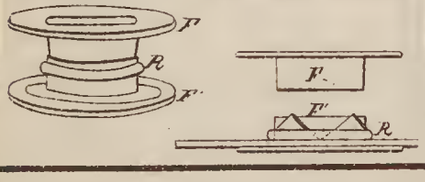
92,197, J. D. LEACH,
NAVIGATORS' BEARING-INDICATOR.



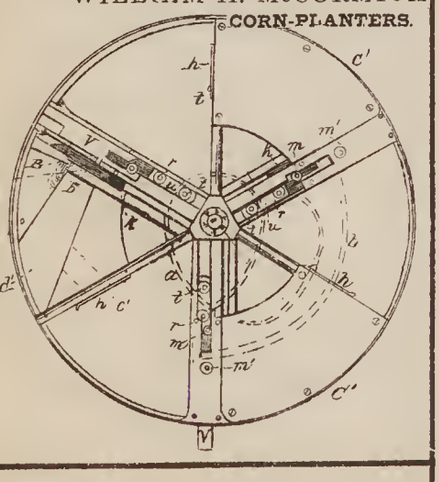
92,198, ALFRED E. LYMAN,
TRANSPLANTING AND WEEDING-MACHINE.



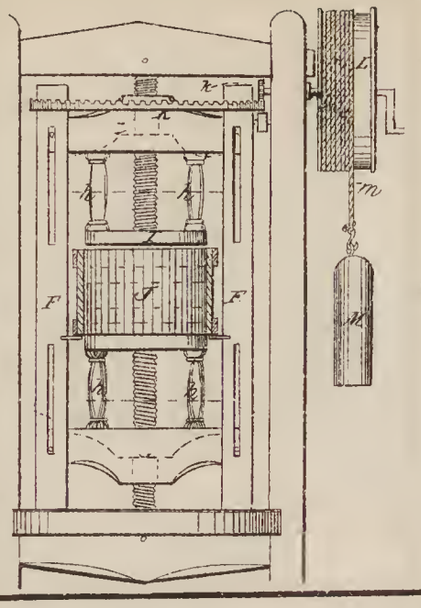
92,199,
JOHN MAIR,
METALLIC GROMMETS.



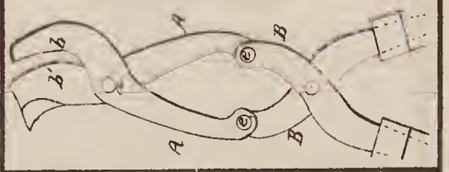
92,200, WILLIAM H. McCORMICK
CORN-PLANTERS.



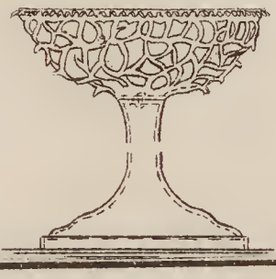
92,201, SAMUEL B. McCULLOUGH,
JOHN R. WEST,
IMPROVED CHEESE-PRESS.



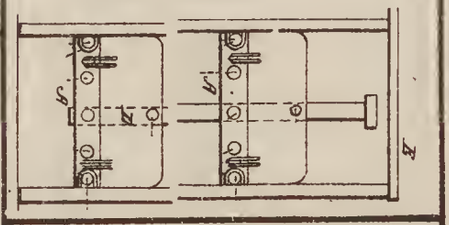
92,202, S. A. McFARLANE
PRUNING-SHEARS.



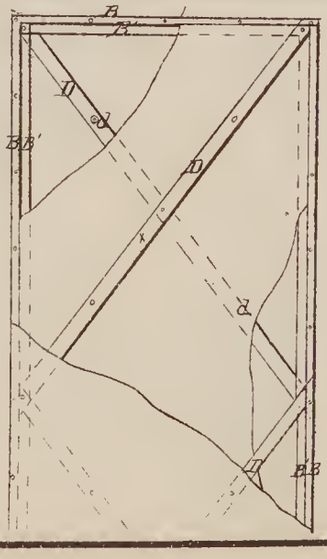
92,203, HENRY MILLER,
METALLIC FLOWER-STAND AND HOLDER.



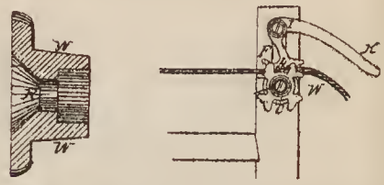
92,204. JOSHUA MONROE,
SHIPS' BERTHS.



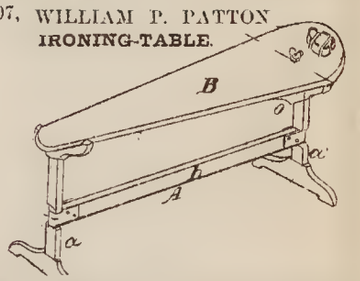
92,205, ALFRED B. MULLETT
BARTHOLOMEW OERTLY,
METALLIC DOOR OR SHUTTER.



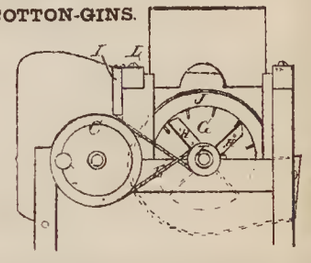
92,206, HARRISON OGBORN.
CLOTHES-LINE HOLDER.



92,207, WILLIAM P. PATTON
IRONING-TABLE.

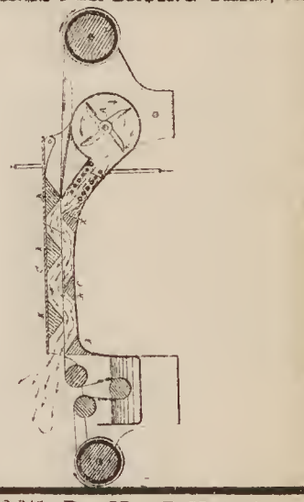


92,208, WILLIAM F. PRATT.
COTTON-GINS.

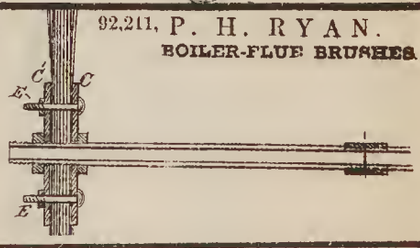


92,209, MARY H. RAMSAUR,
MEDICAL COMPOUND.

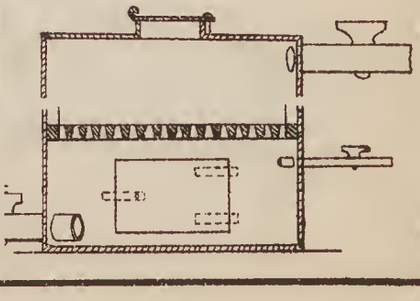
92,210. GEORGE RICHARDSON,
MACHINES FOR DRYING YARN, &c.



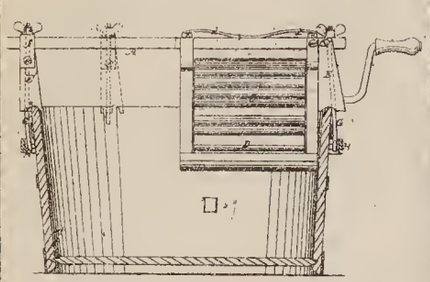
92,211, P. H. RYAN.
BOILER-FLUE BRUSHES.



92,212, MILTON SANDERS,
FURNACE FOR GENERATING STEAM-GAS.

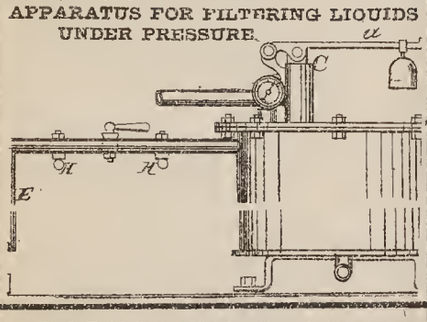


92,213, M. J. SANFORD,
WASHING-MACHINE.

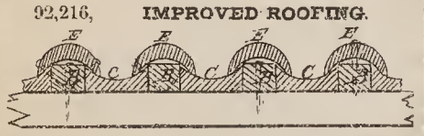


92,214, S. SHERMAN AND JEREMIAH G. SHERMAN,
POST-AUGERS.

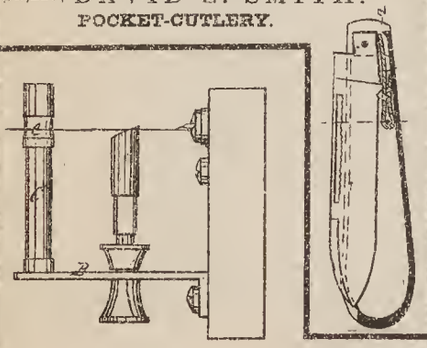
92,215, THOS. R. SINCLAIRE.
APPARATUS FOR FILTERING LIQUIDS UNDER PRESSURE.



CORNELIUS T. SMITH,
92,216, IMPROVED ROOFING.

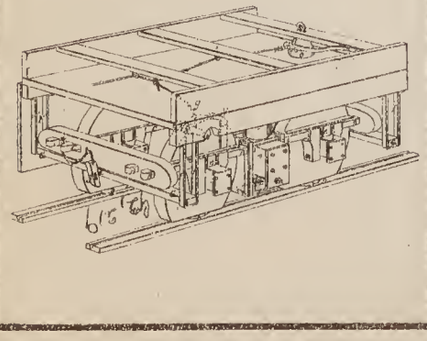


92,217, DAVID E. SMITH.
POCKET-CUTLERY.



92,218, GEORGE S. SMITH.
YARN-EVENER.

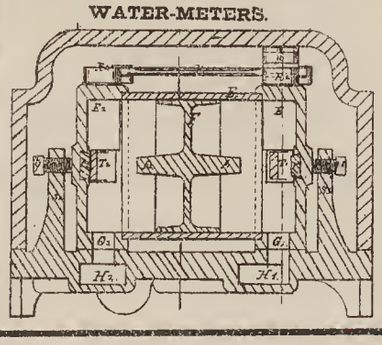
92,219, WILLIAM M. SMITH
RAILWAY-CAR TRUCK.



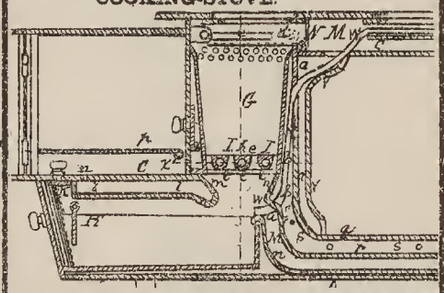
92,220, JAMES R. SPEER,
PROCESS OF TREATING CAST-IRON

92,221, JAMES R. SPEER.
MODE OF TREATING PIG-IRON

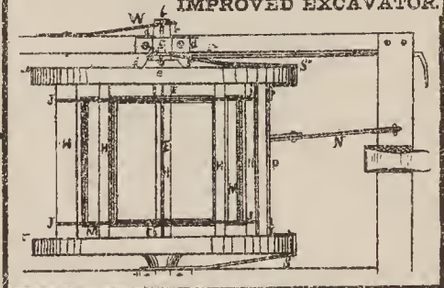
92,222, MONROE STANNARD,
WATER-METERS.



92,223, GEORGE W. SWETT.
COOKING-STOVE.

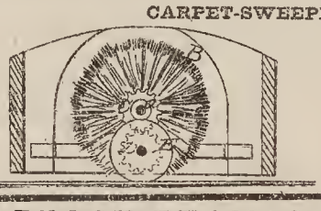


92,224, JOHN W. SWICKARD,
IMPROVED EXCAVATOR.

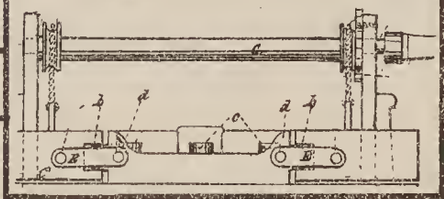


92,225, NICHOLAS CHARLES SZERELMEY.
MANUFACTURE OF TARPAULINS.

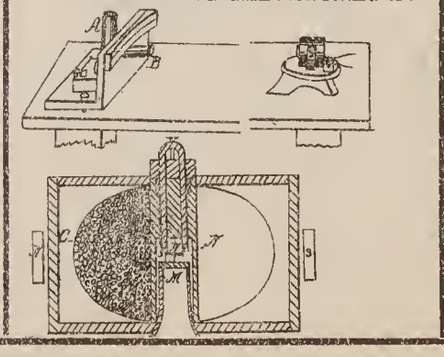
92,226, GILBERT F. TAYLOR.
CARPET-SWEEPER.



92,227, ENOCH THOMAS.
RETAINER FOR TOBACCO-PRESSES.

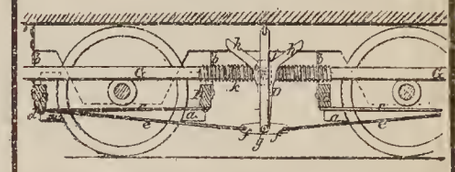


92,228, WILLIAM THOMSON,
REFLECTING-GALVANOMETERS.

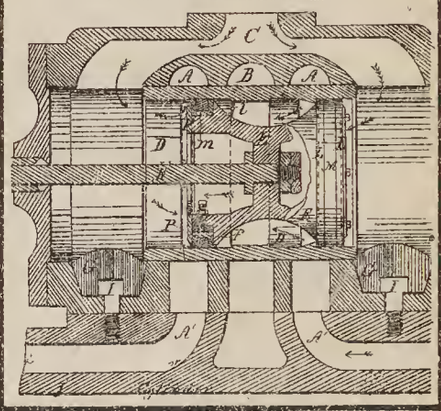


92,229, BENJAMIN C. TILGHMAN,
PROCESS OF TREATING VEGETABLE SUBSTANCES TO OBTAIN FIBRE.

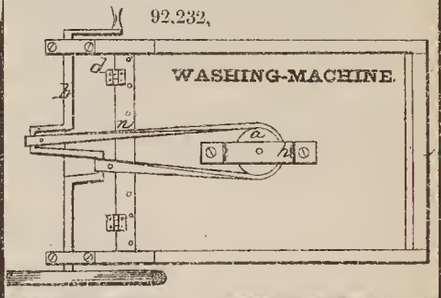
92,230, FREDERICK TOWNSEND.
RAILWAY-CAR BRAKE.



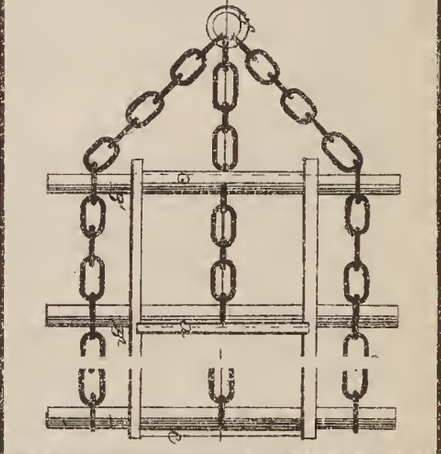
CHARLES W. TREMAIN.
92,231, BALANCE PISTON-VALVES FOR STEAM-ENGINES.



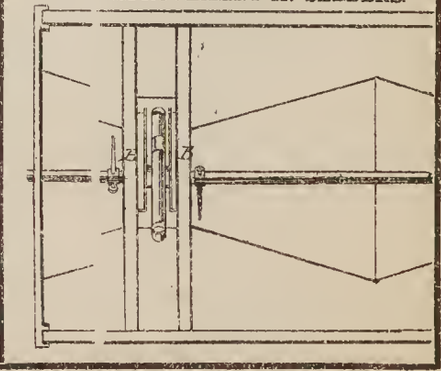
D. TRUE AND E. FAIRFIELD.
92,232,
WASHING-MACHINE.



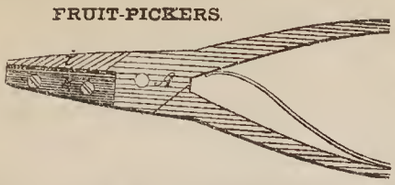
92,233, JONATHAN B. TURNER.
CLOD-BREAKER AND PULVERIZER.



92,234, MORRIS L. UTTER.
IMPROVEMENT IN SEEDERS.

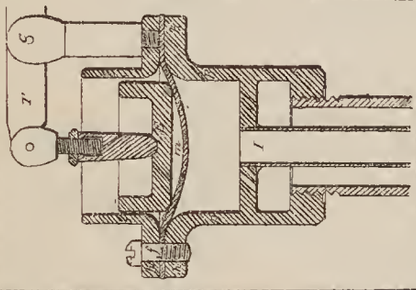


92,235, SAML. W. VALENTINE.
FRUIT-PICKERS.

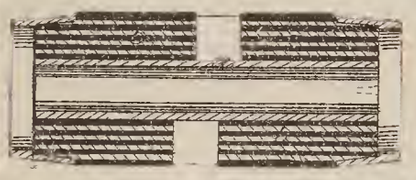


92,236,
GEORGE WEAVER.
H. NELSON ALLEN.
RUBBER SPRINGS.

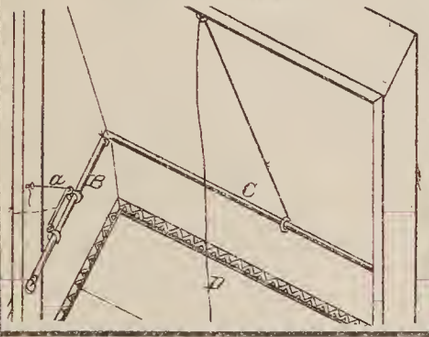
92,237, PHINEAS D. WESSON.
LOW-WATERINDICATORS FOR BOILER



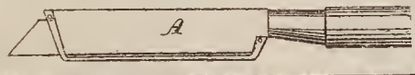
92,238, J. W. WESTON. **CARRIAGE-HUB.**



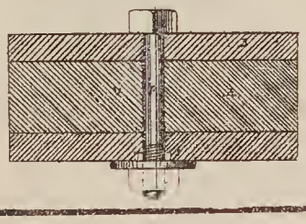
92,239, JAMES B. WHEEDEN.
WINDOW-AWNING.



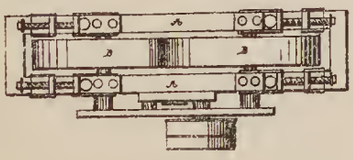
92,240, GOTTLIEB H. WILDE.
APPLE-PARERS.



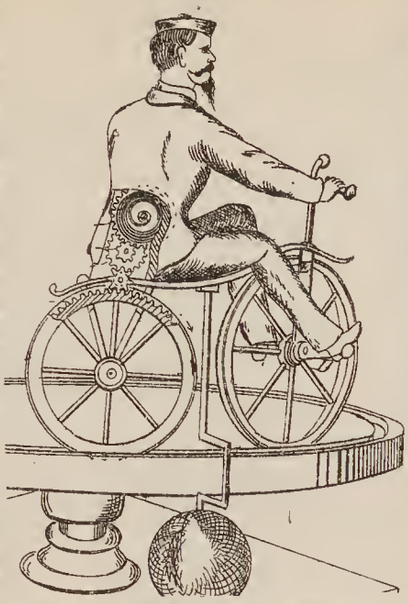
92,241, W. H. WILLIAMS.
NUT-LOCKING WASHER.



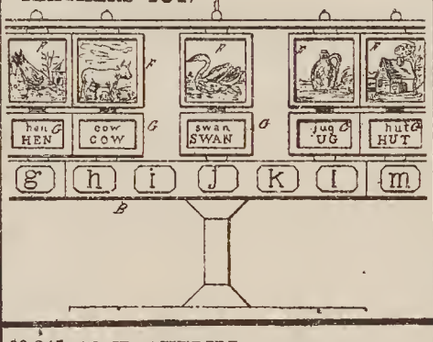
92,242, CHARLES E. WILSON.
TRUING GRINDSTONES.



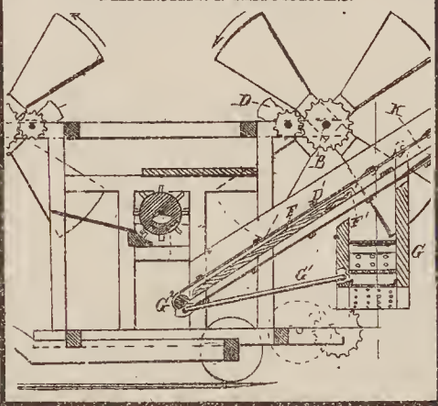
92,243, H. C. ALEXANDER.
TOY-VELOCIPEDE.



92,244,
E. F. ANDERSON.
TEACHERS' TOY.

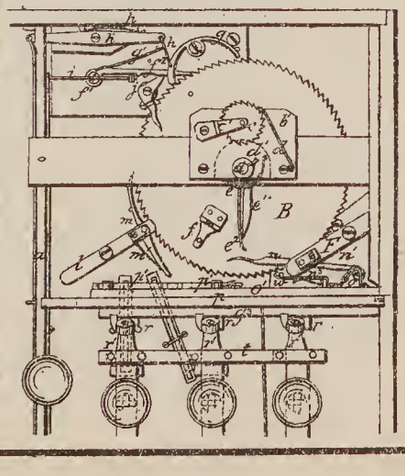


92,245, H. K. AVERILL.
THRESHING-MACHINES.



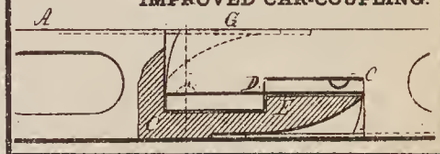
92,246. JOSEPH F. BALDWIN,
PRESERVING ANIMAL AND VEGETABLE SUBSTANCES ON SHIP-BOARD.

92,247, HARVEY BALL.
BILLIARD-COUNTER.

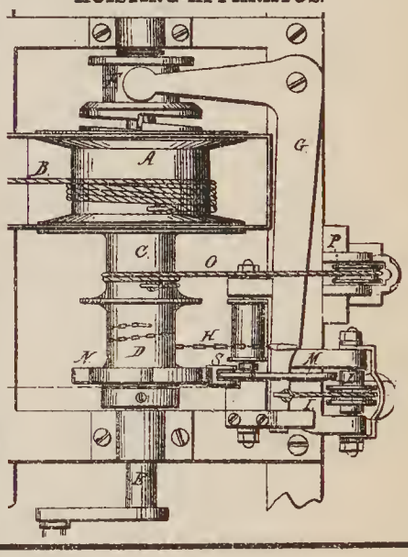


92,248, SIMON S. BARGER.
MEDICAL COMPOUND FOR TREATING HOG CHOLERA.

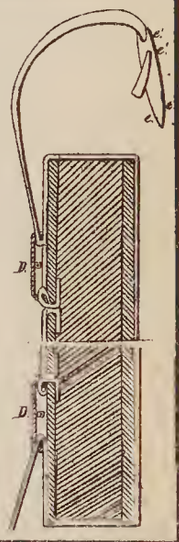
92,249, R. F. BAUGHN.
IMPROVED CAR-COUPLING.



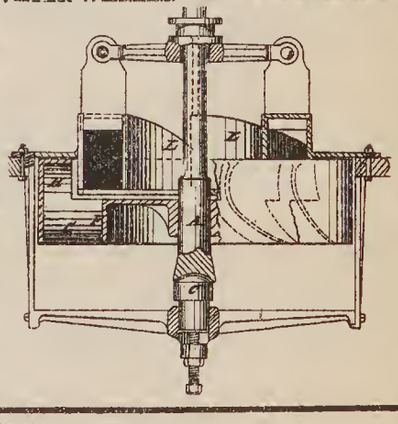
92,250, JOHN BEATTIE.
HOISTING-APPARATUS.



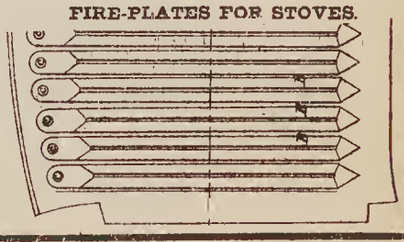
92,251,
B. J. BECK.
PAPER-FILES OR BINDERS.



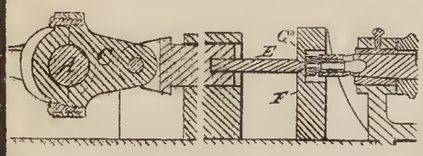
92,252,
STEPHEN A. BELL.
TURBINE WATER-WHEELS.



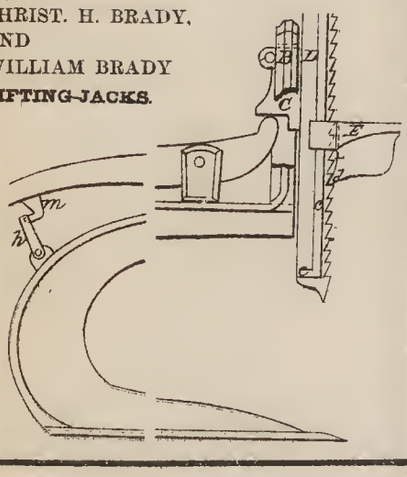
92,253, E. BOILEAU.
FIRE-PLATES FOR STOVES.



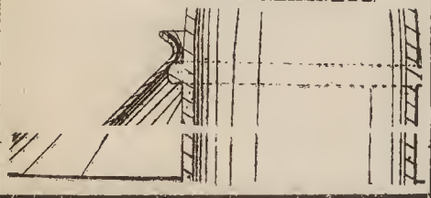
92,254,
HORACE C. BRADFORD.
EYELET-MAKING MACHINES



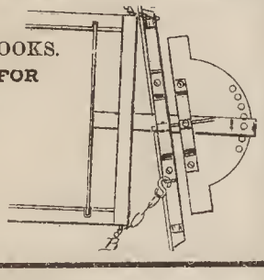
92,255,
CHRIST. H. BRADY,
AND
WILLIAM BRADY
LIFTING-JACKS.



92,256, HOMER BROOKE.
LAMP-CHIMNEYS.

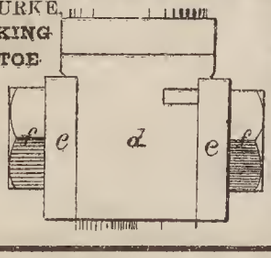


92,257,
JAMES F. BROOKS.
APPARATUS FOR OPERATING SCRAPERS.

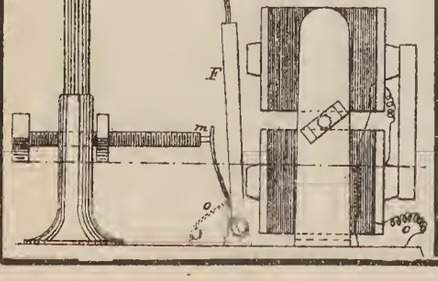


92,258. S. D. BROOKS.
PROCESS FOR SOLDERING THE JOINTS AND SEAMS OF METALLIC VESSELS.

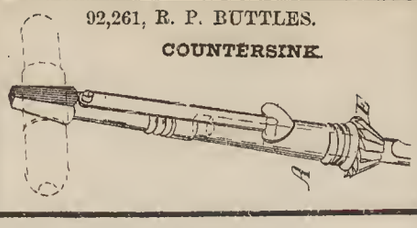
92,259, P. F. BURKE.
DIE FOR MAKING HORSESHOE-TOE-CALKS.



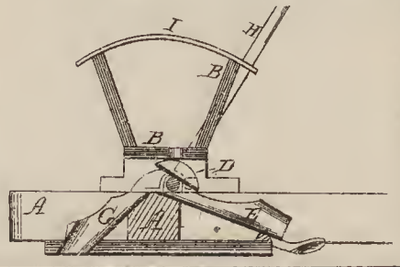
92,260,
JOHN G. BUTLER.
ELECTRO-MAGNETIC ALARMS.



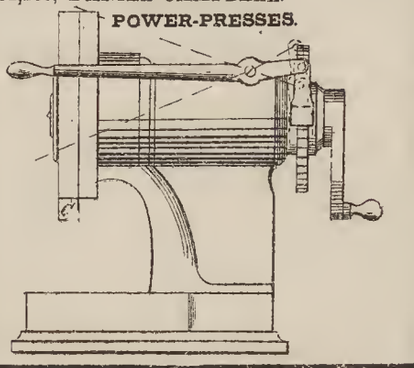
92,261, R. P. BUTTLES.
COUNTERSINK.



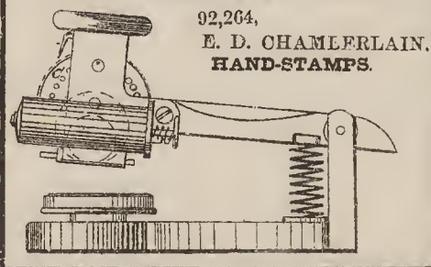
92,262, JOHN E. BUXTON.
COMBINED DRILL AND SEEDER.



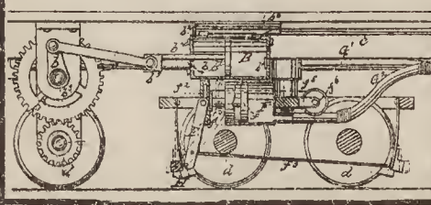
92,263, DANIEL CAMPBELL.
POWER-PRESSES.



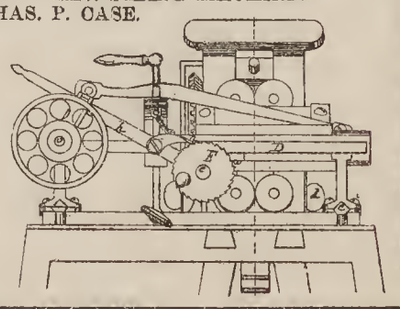
92,264,
E. D. CHAMBERLAIN.
HAND-STAMPS.



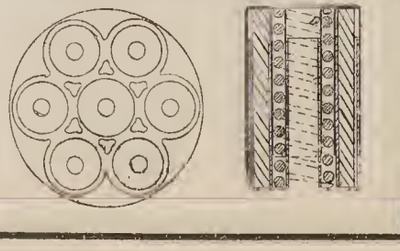
92,265, WILLIAM LATTA CHAMBERS.
ATMOSPHERIC CAR-BRAKE.



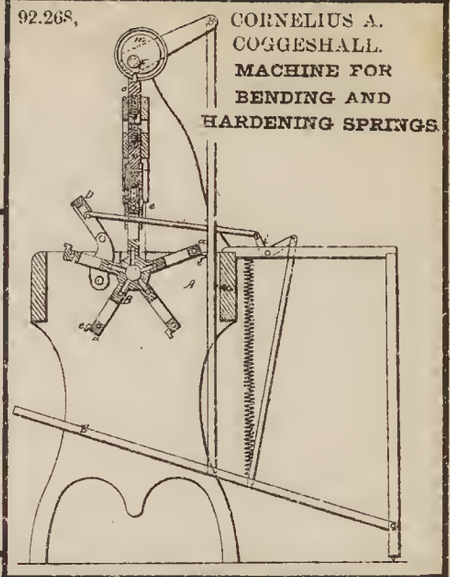
92,266. **SAW-FILING MACHINE.**
CHAS. P. CASE.



92,267, J. W. COCHRAN.
RAILWAY-CAR SPRING.

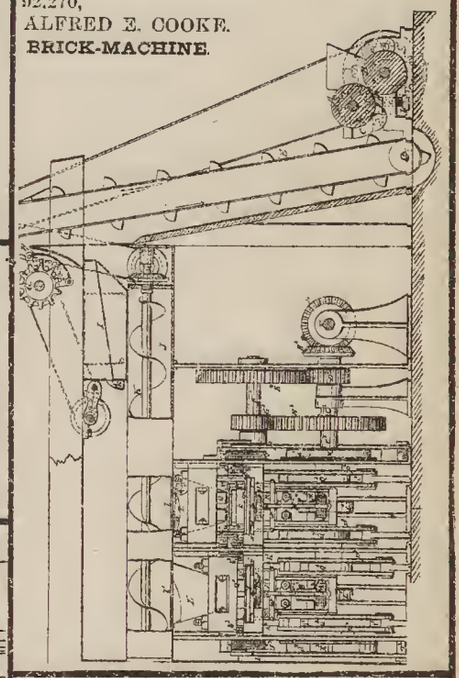


92,268,
CORNELIUS A. COGGESHALL.
MACHINE FOR BENDING AND HARDENING SPRINGS.

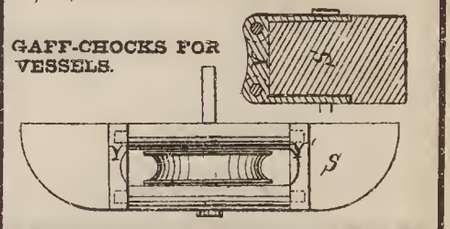


92 269, DAN A. CONNOR.
WATER-PROOF FABRIC FOR THE MANUFACTURE OF HATS AND OTHER ARTICLES.

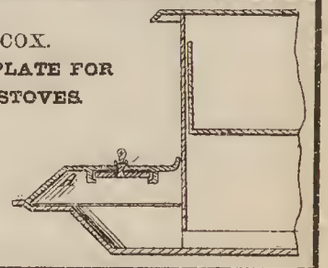
92,270,
ALFRED E. COOKE.
BRICK-MACHINE.



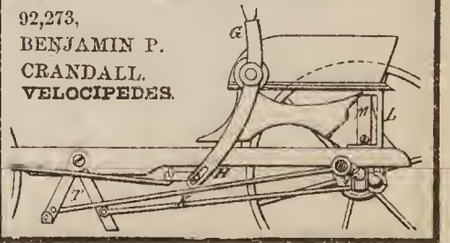
92,271, JOHN C. COTTINGHAM.
GAFF-CHOCKS FOR VESSELS.



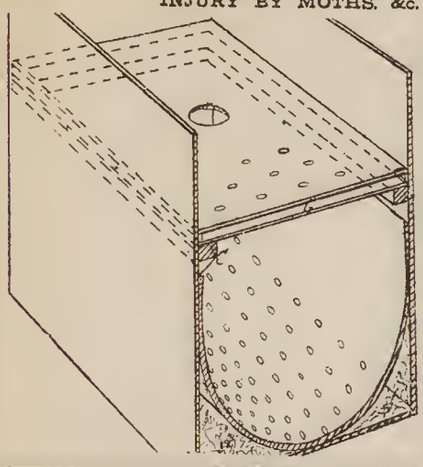
92,272,
DAVID B. COX.
HEARTH-PLATE FOR COOKING-STOVES.



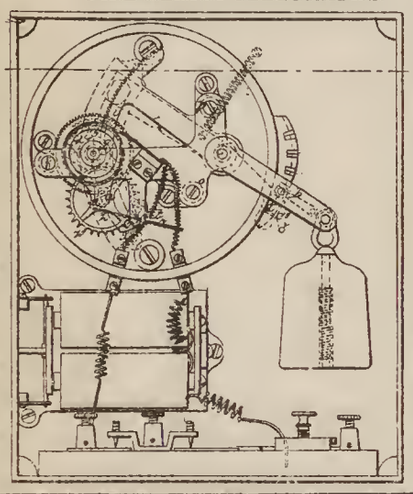
92,273,
BENJAMIN P. CRANDALL.
VELOCIPEDES.



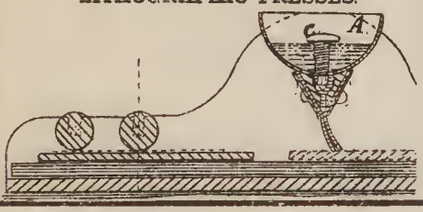
92,274. JASON CRANE.
PRESERVING FURS, CLOTHES, AND THE LIKE ARTICLES, FROM INJURY BY MOTHS, &c.



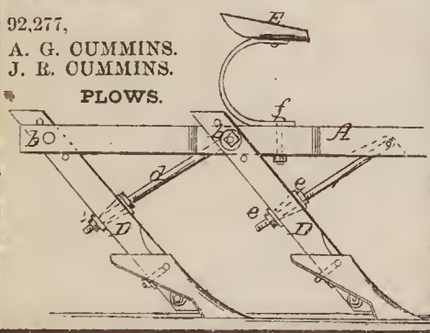
92,275, MOSES G. CRANE.
EDWIN ROGERS.
AUTOMATIC SIGNAL-BOXES FOR FIRE-ALARM TELEGRAPHS.



92,276, JOHN CRAWLEY.
LITHOGRAPHIC PRESSES.

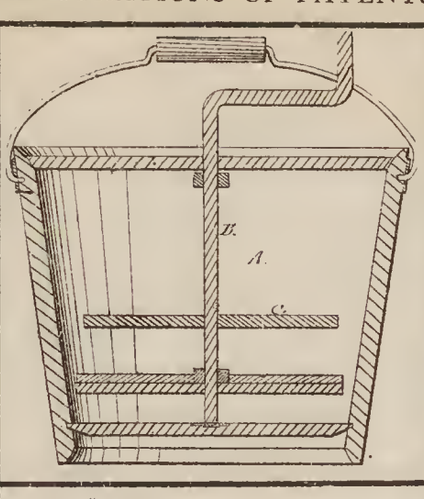


92,277,
A. G. CUMMINS.
J. R. CUMMINS.
PLOWS.

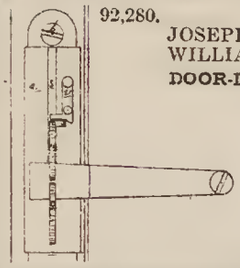


92,278,
SUSAN C. CURRIE.
MEDICINE-SPOON AND BOTTLE-STOPPER COMBINED.

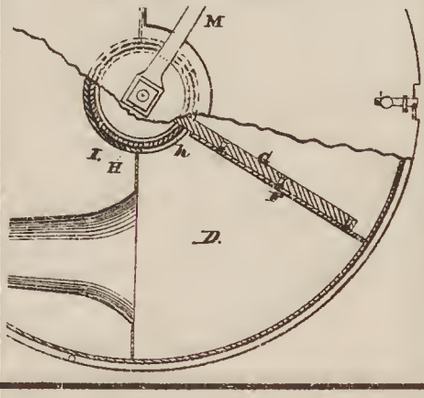
92,279, ISRAEL J. CURRIER.
JOSEPH HAWSE.
POTATO-WASHER.



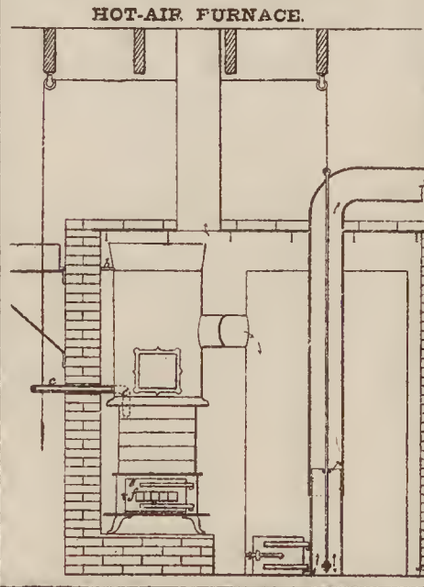
92,280.
JOSEPH C. CURRYER.
WILLIAM C. YOUNG.
DOOR-LATCHES.



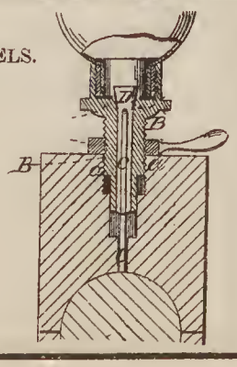
92,281, HENRY CURTNER.
SAUSAGE-STUFFER.



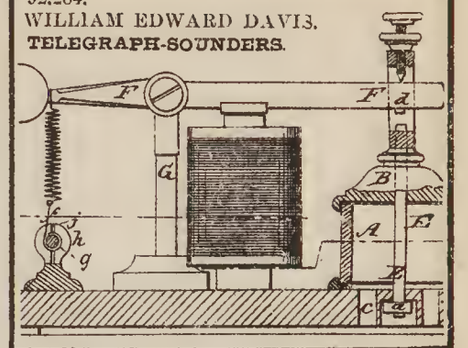
92,282, MARK ANTHONY CUSHING.
HOT-AIR FURNACE.



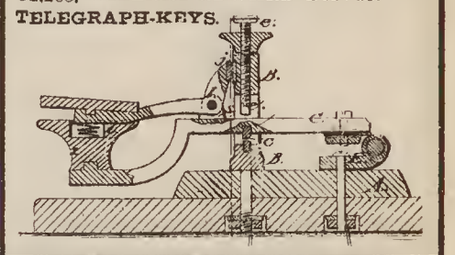
92,283,
HENRY A. DANIELS.
LUBRICATOR.



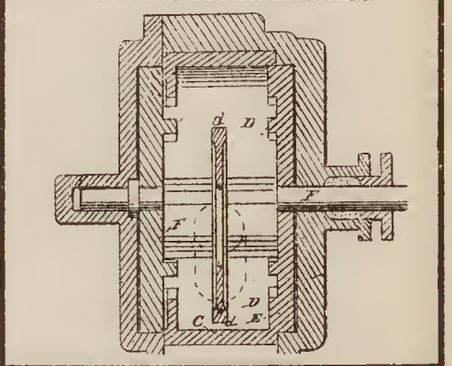
92,284.
WILLIAM EDWARD DAVIS.
TELEGRAPH-SOUNDERS.



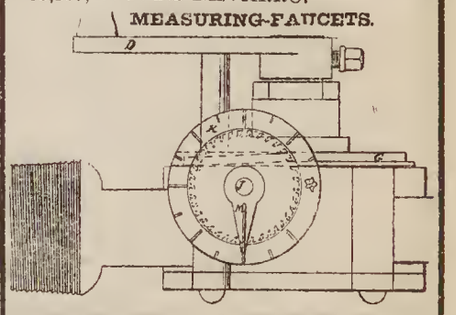
92,285, WILLIAM EDWARD DAVIS.
TELEGRAPH-KEYS.



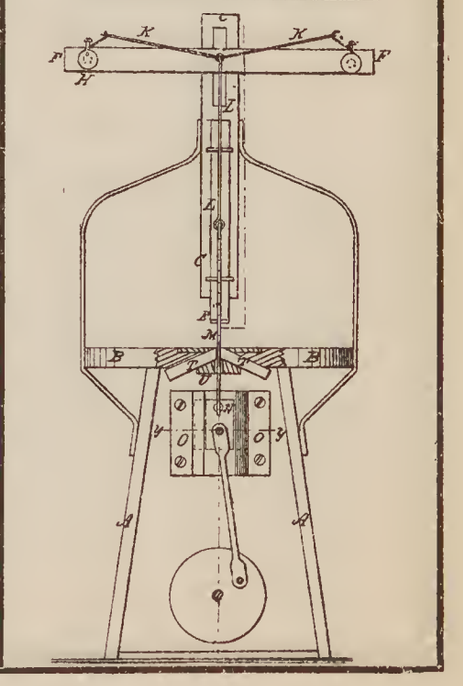
92,286, J. F. DE NAVARRO.
ROTARY STEAM-ENGINES.



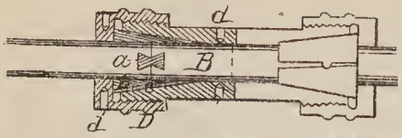
92,287, J. F. DE NAVARRO.
MEASURING-FAUCETS.



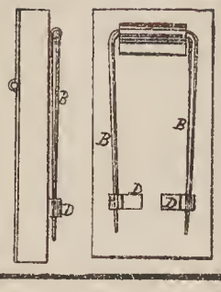
92,288, WILLIAM H. DOBSON.
SCROLL-SAWING MACHINE.



92,289. WM. B. DUNNING.
SHAFT-COUPLINGS.



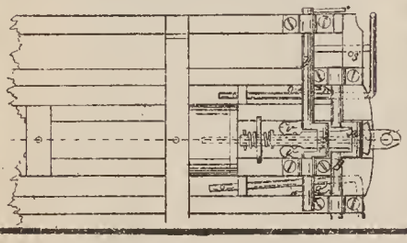
92,290.
J. W. DURHAM.
MATCH-SAFES.



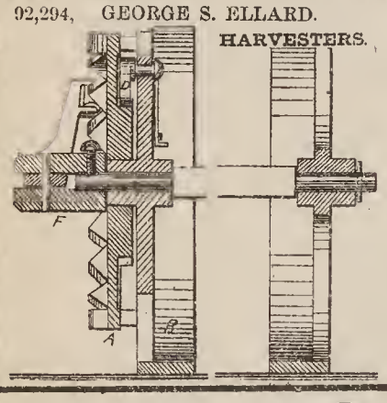
92,291,
RUFUS M.
EASTMAN.
AUTOMATIC TONGS.

92,292. HENRY V. EDMOND.
COMPOSITION FOR STAINING GLASS.

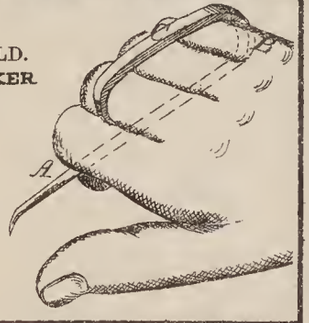
92,293, JOHN ELBERTSON.
RAILWAY-CAR COUPLING.



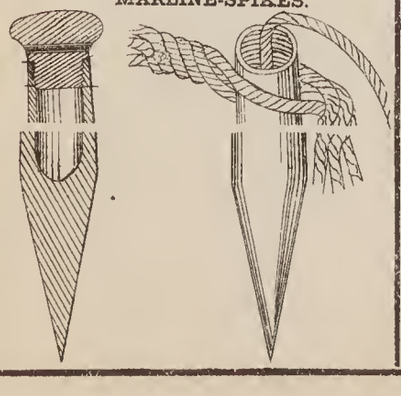
92,294, GEORGE S. ELLARD.
HARVESTERS.



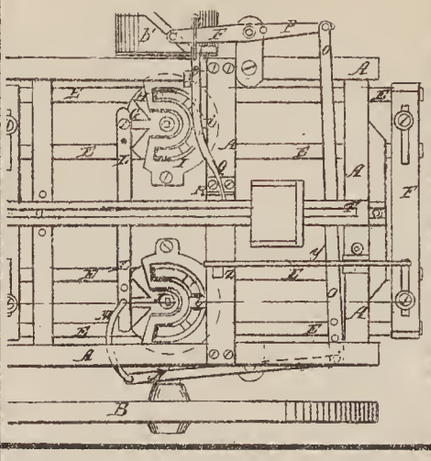
92,295,
ELIHU FIELD.
CORN-HUSKER.



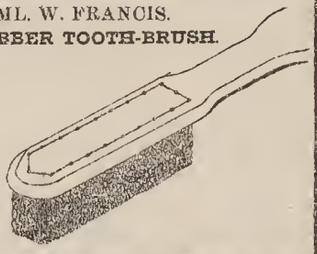
92,296, FREDRICK FISHER.
MARLINE-SPIKES.



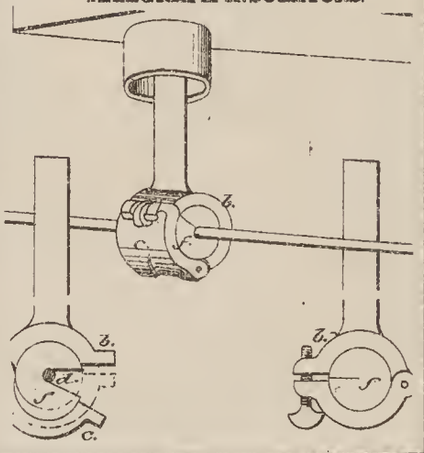
92,297, ROBERT FORMAN.
CORN-PLANTERS.



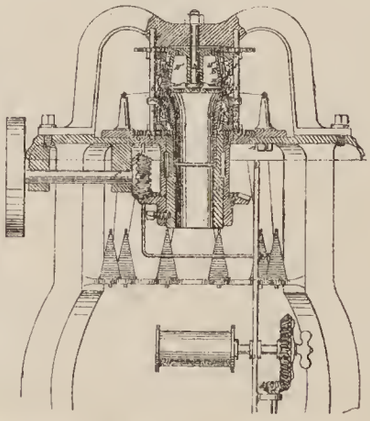
92,298. SAML. W. FRANCIS.
INDIA-RUBBER TOOTH-BRUSH.



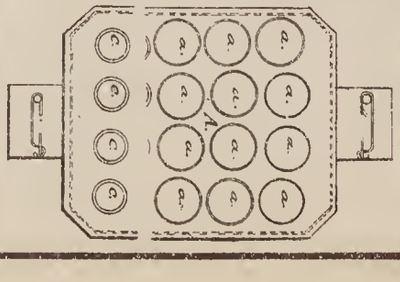
92,299, JOHN W. FRY.
TELEGRAPH-INSULATORS.



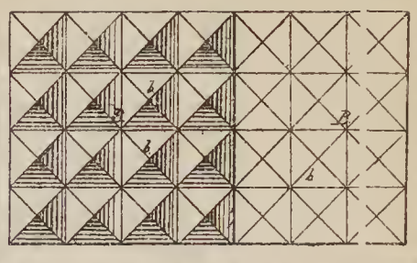
92,300, FREDERICK GARDNER.
KNITTING-MACHINES.



92,301, ALFRED C. GARRATT.
PHYSIOLOGICAL BATTERIES.

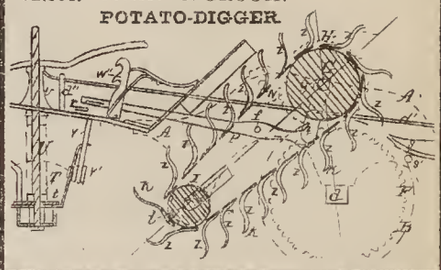


92,302, DOMENICO GIAMBASTIANI.
ARMOR-PLATING FOR VESSELS.

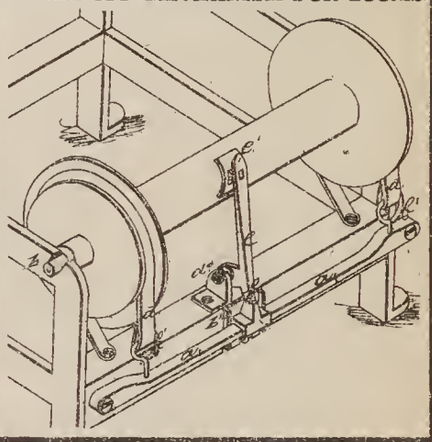


92,303, G. F. GOETZE.
PAPIER-MACHE COMPOUND.

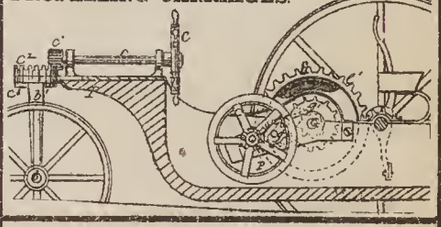
92,304. ISAAC C. GROOM.
POTATO-DIGGER.



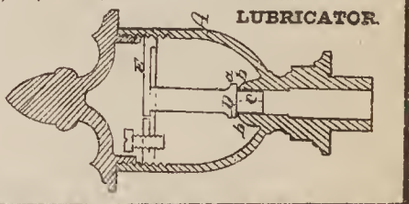
92,305, WILLIAM HALL.
LET-OFF MECHANISM FOR LOOMS.



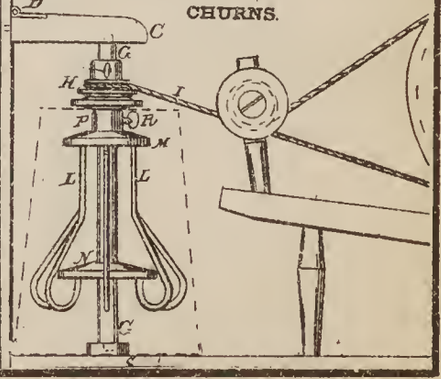
92,306, THOMAS A. HARES.
PROPELLING CARRIAGES.



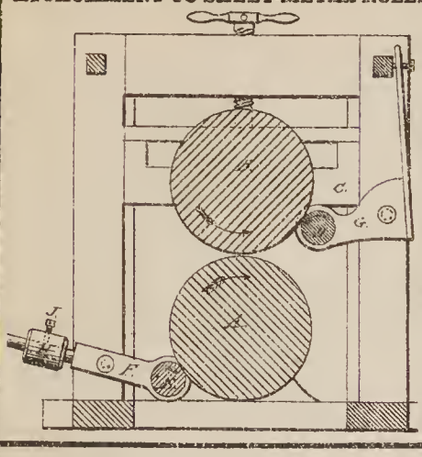
92,307, ABRAHAM W. HARRIS.
LUBRICATOR.



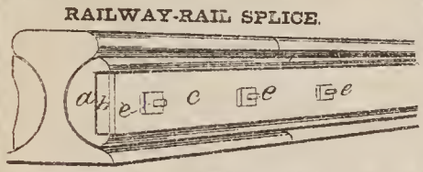
92,308. B. N. HARRIS.
CHURNS.



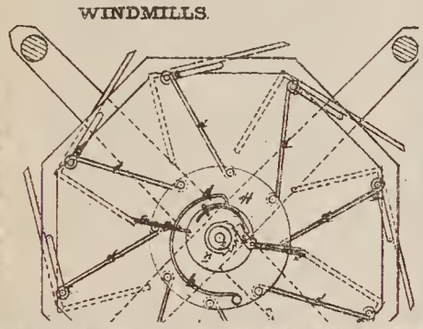
92,309, JOHN B. HASTINGS.
CLEANING AND POLISHING ATTACHMENT TO SHEET-METAL ROLLS



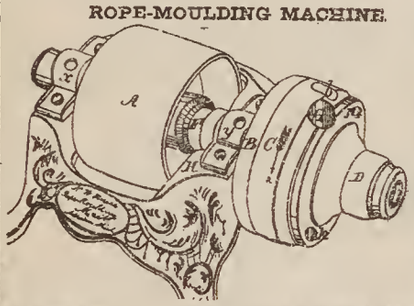
92,310, WILLIAM E. HENRY.
RAILWAY-RAIL SPLICE.



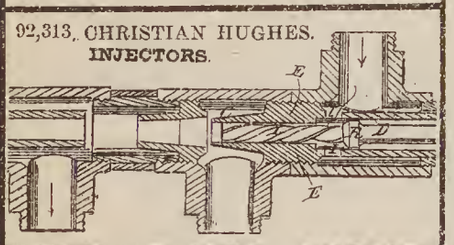
92,311, JAMES M. HENRY C. HILL.
WINDMILLS.



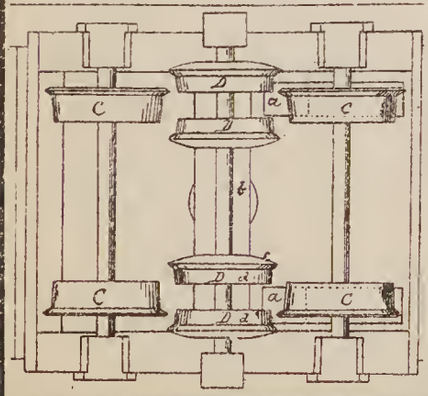
92,312, NOAH WM. HOUSE.
ROPE-MOULDING MACHINE.



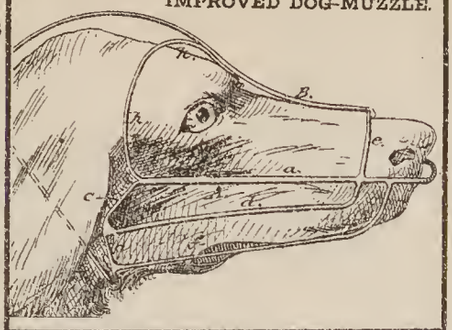
92,313, CHRISTIAN HUGHES.
INJECTORS.



92,314. G. H. JONES.
RAILWAY-CAR TRUCK.

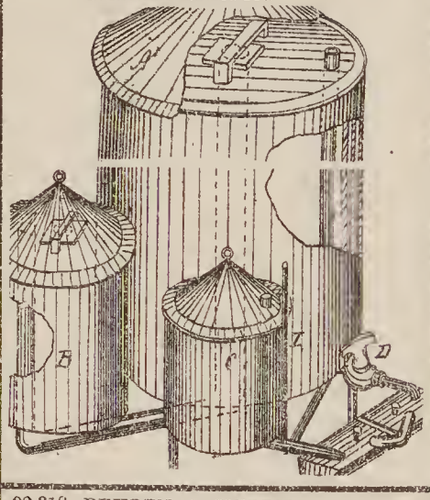


92,315, H. KAEMPF.
IMPROVED DOG-MUZZLE.

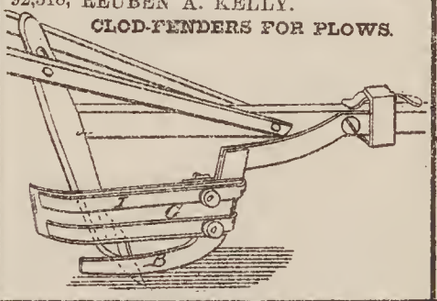


92,316, EDWARD G. KELLEY.
OIL-CAN FROM PAPER-STUFF.

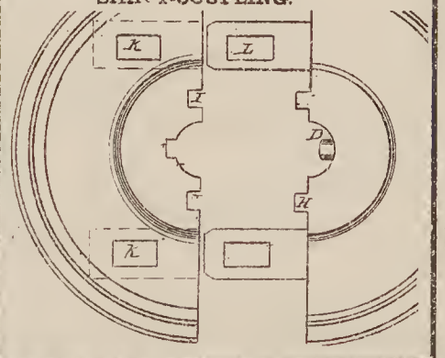
92,317, PATRICK KELLY.
GAS-GENERATOR.



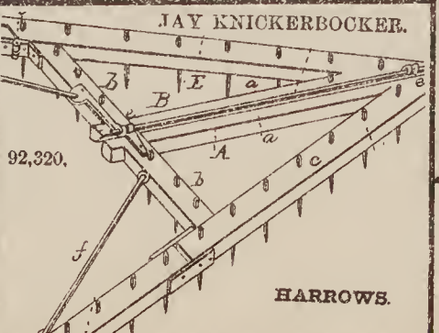
92,318, REUBEN A. KELLY.
CLOD-FENDERS FOR PLOWS.



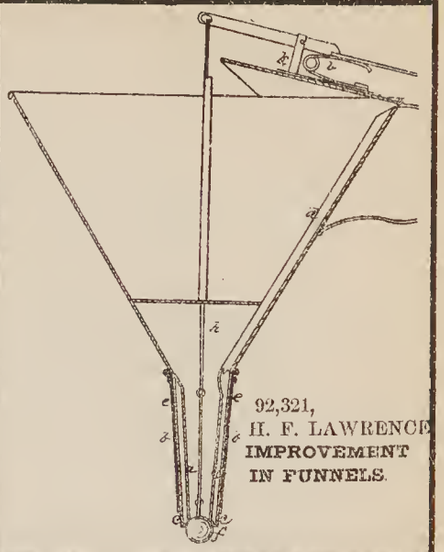
92,319, WILLIAM KENNEDY.
SHAFT-COUPLING.



JAY KNICKERBOCKER.

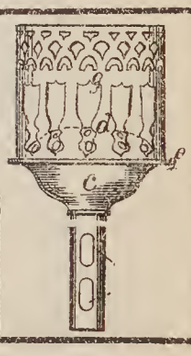


92,320.
HARROWS.

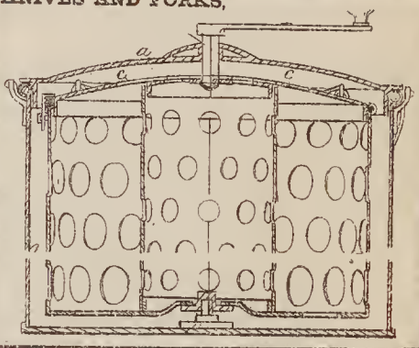


92,321,
H. F. LAWRENCE
IMPROVEMENT IN FUNNELS.

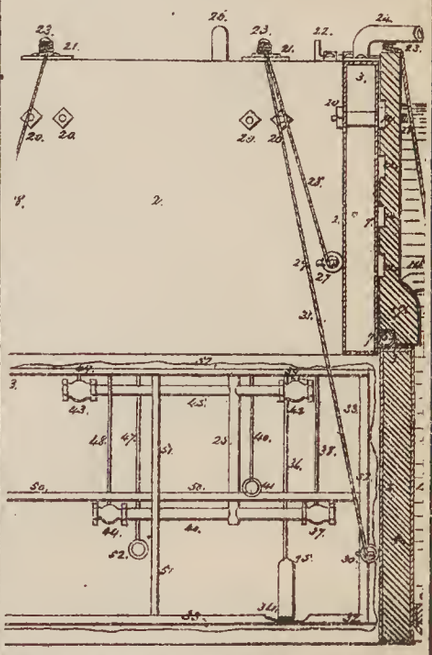
92,322,
H. Y. LAZEAR.
J. L. SHARP.
GAS-HEATER.



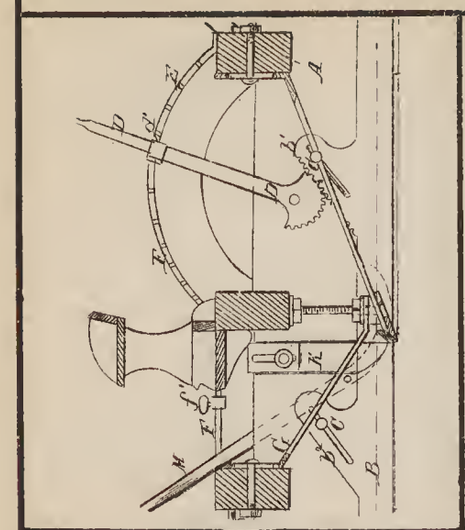
92,323,
CHARLES M. LELAND.
MACHINE FOR WASHING DISHES, KNIVES AND FORKS.



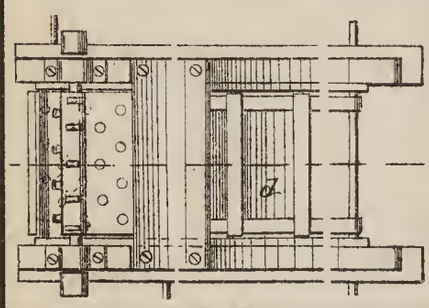
92,324, PORTABLE AND CONVERTIBLE COFFER-DAM. SAMUEL LEWIS.



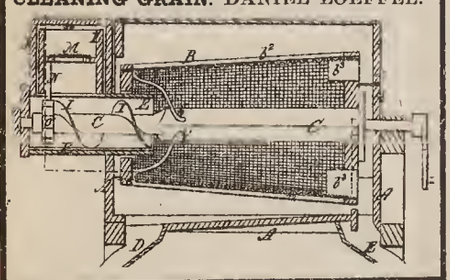
92,325.
SAMUEL LEWIS.
ICE-PLANERS.



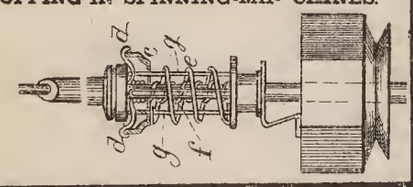
92,326, CLOVER AND FLAX-THRESHING MACHINE. SAMUEL H. LINTAN.



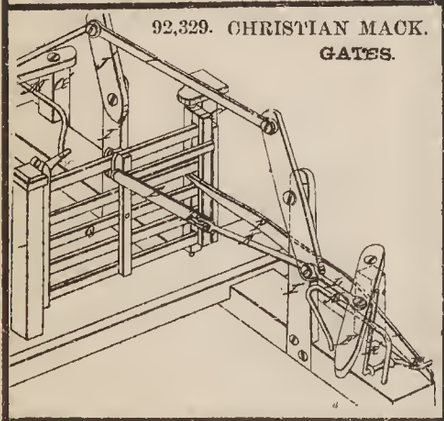
92,327. REVOLVING SCREEN FOR CLEANING GRAIN. DANIEL LOEFFEL.



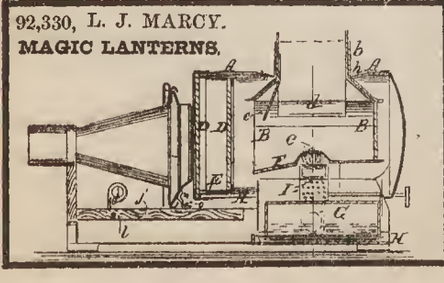
92,328, THOS. L. LUDERS.
DEVICES FOR HOLDING THREAD WHILE DOFFING IN SPINNING-MA- CHINES.



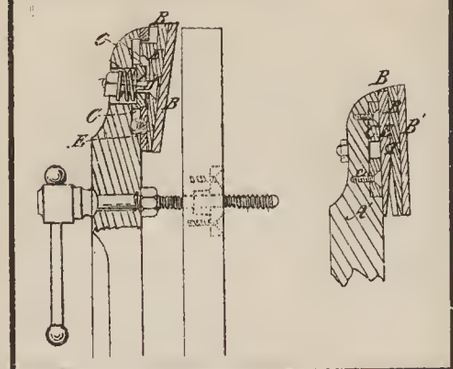
92,329. CHRISTIAN MACK. GATES.



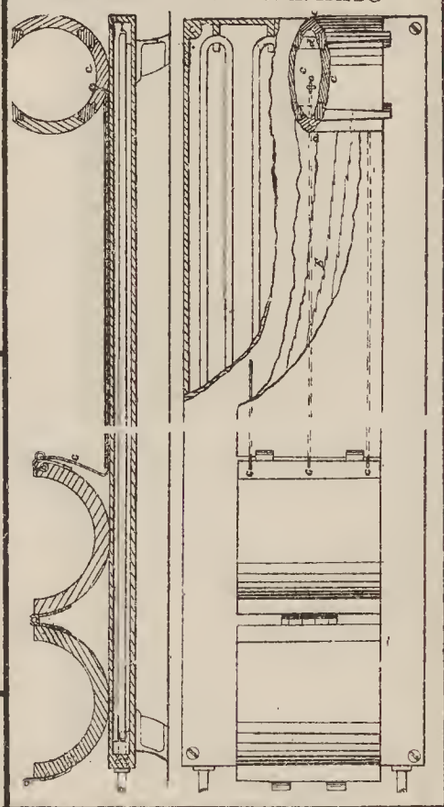
92,330, L. J. MARCY.
MAGIC LANTERNS.



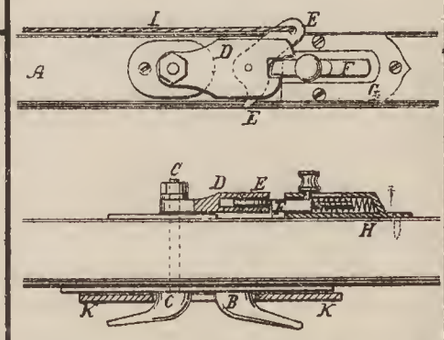
92,331, A. Z. MASON.
IMPROVEMENT IN VISE.



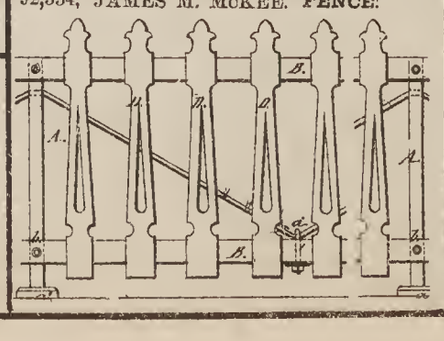
92,332, PROCESS AND APPARATUS FOR MANUFACTURING COMPOSITION-PIPES TUBES BARRELS, &c. J. K. MAYO



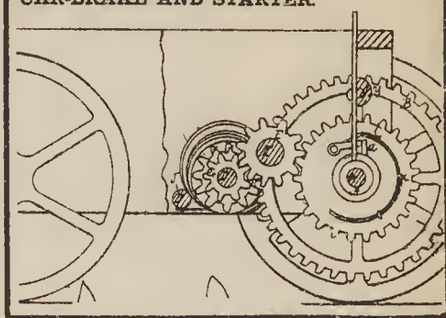
92,333, C. McELROY.
DEVICE FOR DETACHING HORSES FROM CARRIAGES.



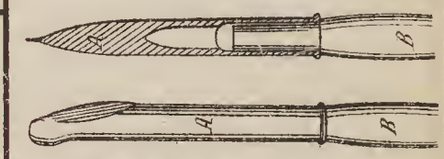
92,334, JAMES M. McKEE. FENCE.



92,335, J. M. McMASTER.
CAR-BRAKE AND STARTER.

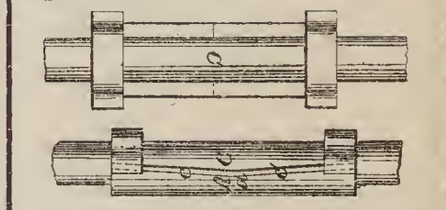


92,336, ROBERT McVEEN. RULING-PENS.

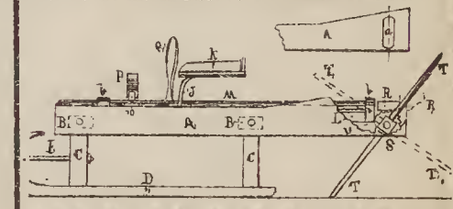


92,337, SAMUEL C. MOORE.
NICKEL-LINED CULINARY VESSELS.

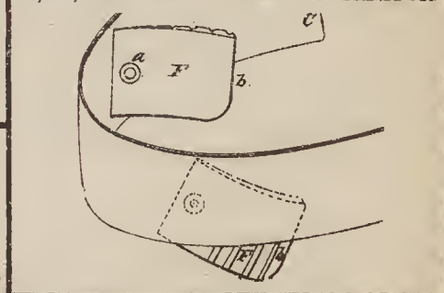
92,338, STEPHEN MOORE.
PIPE-LEAK STOPPER.



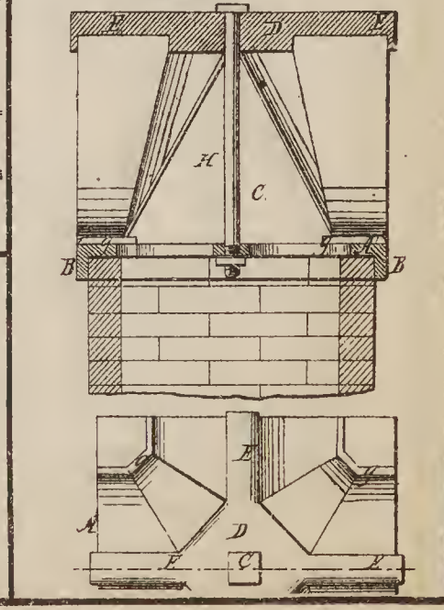
92,339, C. H. MOSEY. HORSE-RAKES.



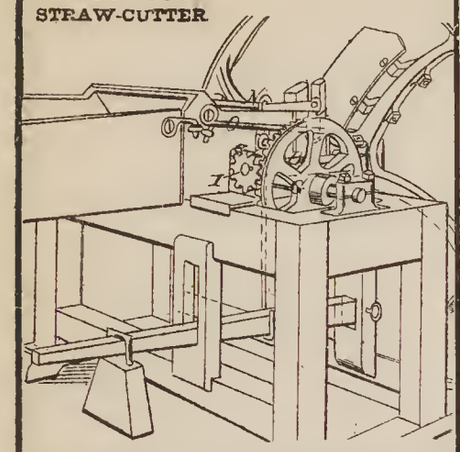
92,340, GEO. MUNRO. HAT-VENTILATOR.



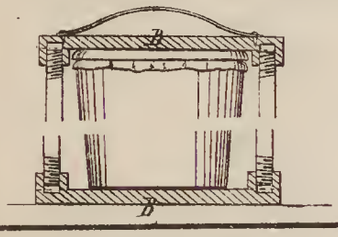
92,341, CHARLES R. SMITH.
CHIMNEYS.



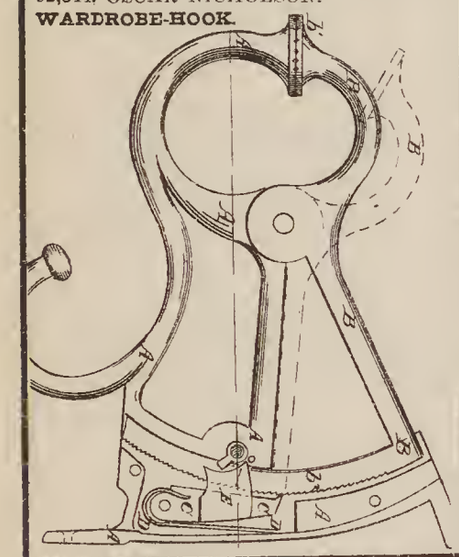
92,342,
F. B. NEWTON
STRAW-CUTTER.



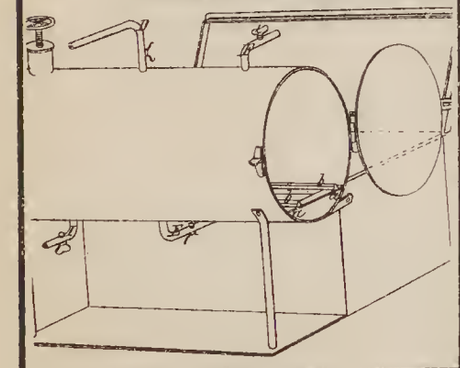
92,343, MOSES H. NICHOLS.
DEVICES FOR SECURING COVERS TO JARS FOR TRANSPORTATION.



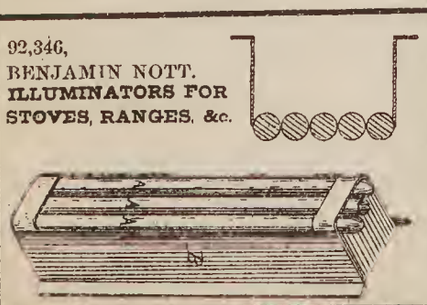
92,344. OSCAR NICHOLSON.
WARDROBE-HOOK.



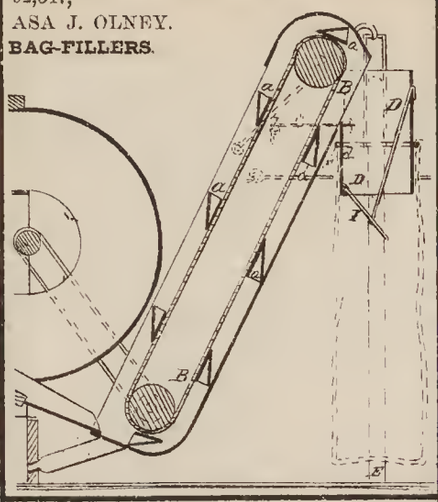
92,345, R. NORRIS. JR.
MODE OF HARDENING AND WORKING "RANSOME CONCRETE STONE."



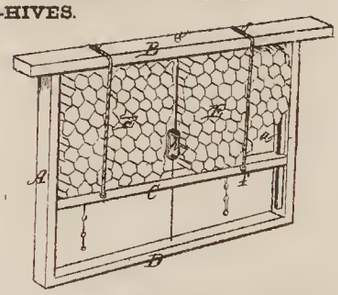
92,346,
BENJAMIN NOTT.
ILLUMINATORS FOR STOVES, RANGES, &c.



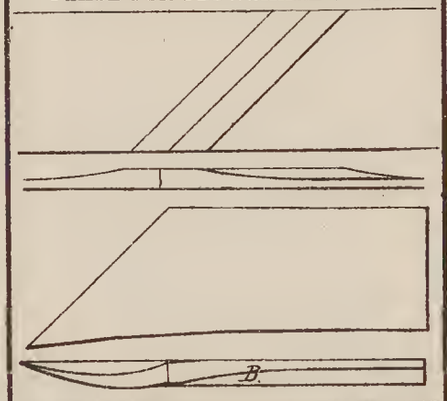
92,347,
ASA J. OLNEY.
BAG-FILLERS.



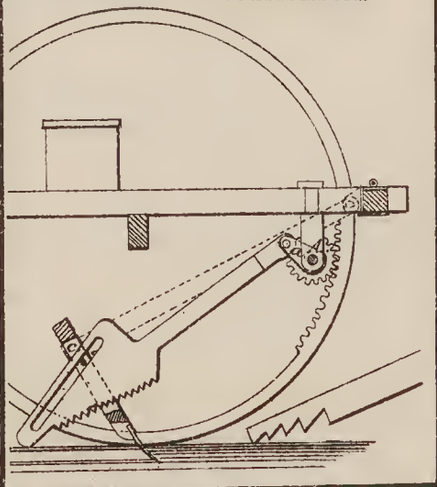
92,348, JOSEPH A. PADDOCK.
JEREMIAH S. ESTEP.
BEE-HIVES.



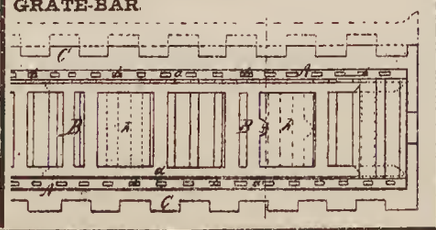
92,349. WILLIAM PARLIN.
PLATE FOR PLOWSHARE-BLANKS.



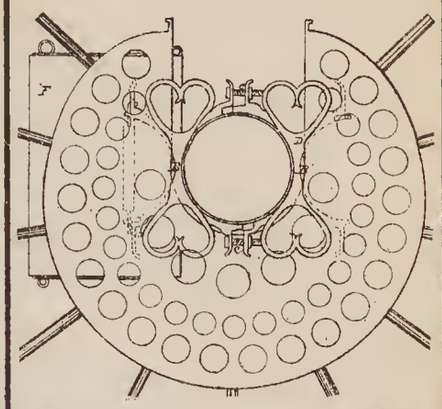
92,350. D. H. PAUL. **CULTIVATORS.**



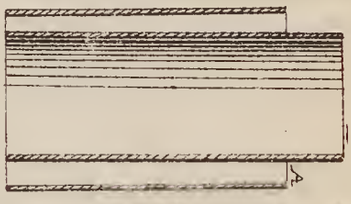
92,351, BENJ. F. PENNY.
JAMES JONES.
GRATE-BAR.



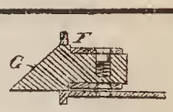
92,352. JOHN PERHAM.
REVERSIBLE STOVE-PIPE SHELF.



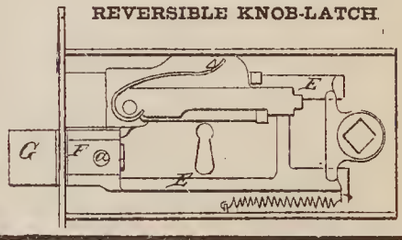
92,353, EDWARD L. PERRY.
CHARLES MANHEIM.
RUBBER OR GUTTA-PERCHA HOSE.



92,354.
F. P. PFLEGHAR.

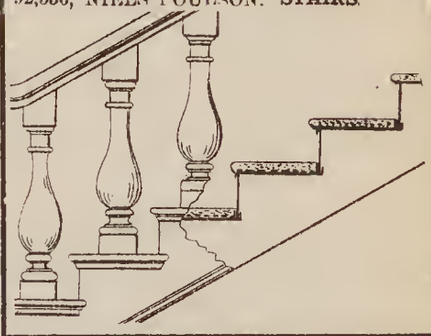


REVERSIBLE KNOB-LATCH.

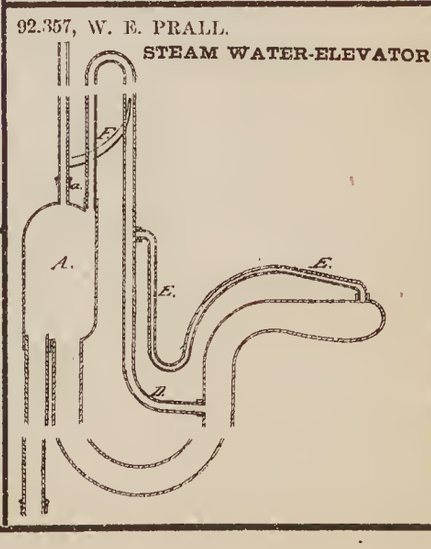


92,355, ARTON M. POLSEY.
METHOD OF MAKING HORSESHOE-NAILS.

92,356, NIELS POULSON. **STAIRS.**

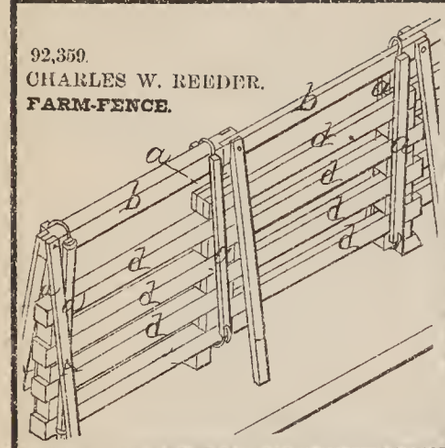


92,357, W. E. PRALL.
STEAM WATER-ELEVATOR.

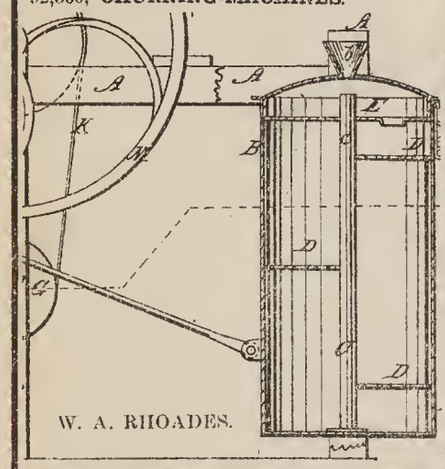


92,358,
A. QUESNOT.
ARTIFICIAL STONE.

92,359.
CHARLES W. REEDER.
FARM-FENCE.

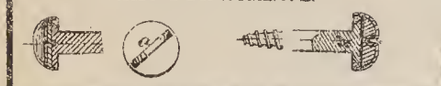


92,360, **CHURNING-MACHINES.**

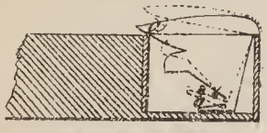


W. A. RHOADES.

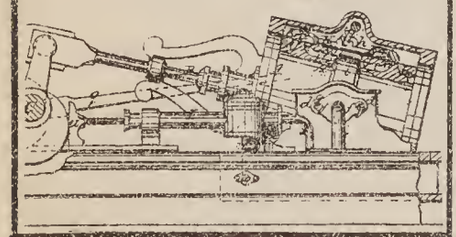
92,361, T. C. RICHARDS.
HEAD FOR SCREWS.



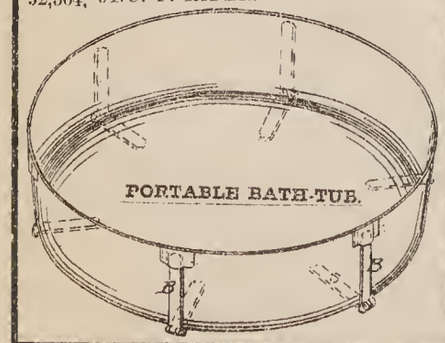
92,362, E. D. RICHARDSON.
YARD-MARK AND KNIFE.



92,363, F. C. RICHER.
OSCILLATING STEAM-ENGINE.

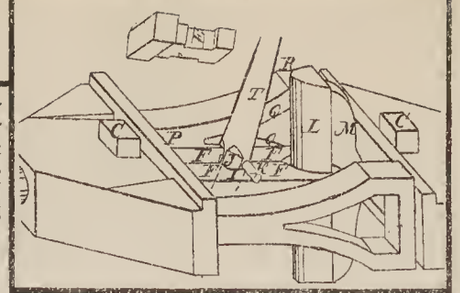


92,364, JNO. P. RIDER.

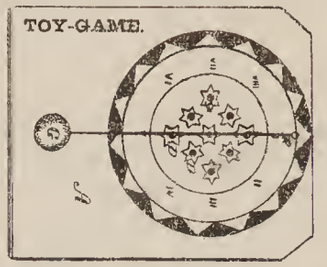


PORTABLE BATH-TUB.

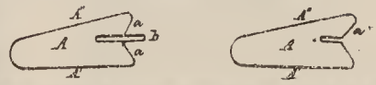
92,365, JAMES RILEY.
RAILWAY-CAR COUPLING.



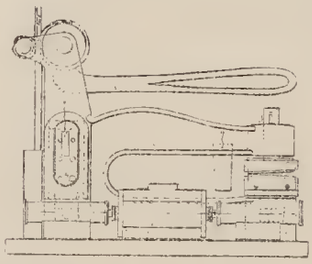
92,366, CHARLES ROBINSON.
TOY-GAME.



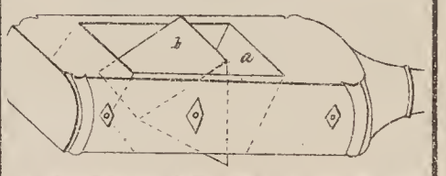
92,367, HORACE A. ROBISON.
WEATHER-STRIP.



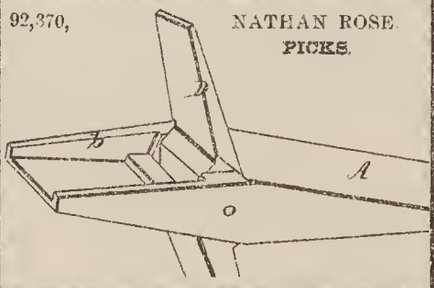
92,368, T. C. ROBINSON.
APPARATUS FOR CUTTING AND SHEARING METAL.



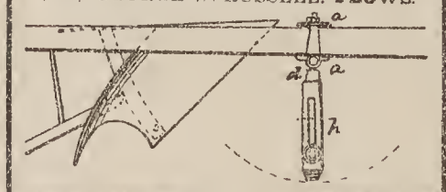
92,369, NATHAN ROSE.
MILL-PICK HANDLE.



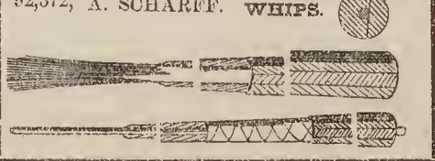
92,370, NATHAN ROSE.
PICKS.



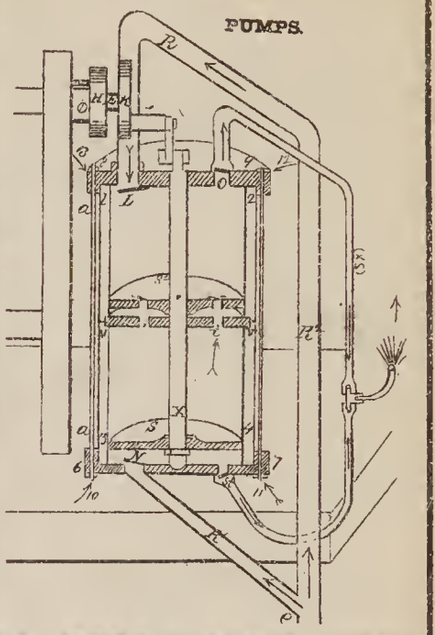
92,371, GEORGE W. RUSSELL. **PLOWS.**



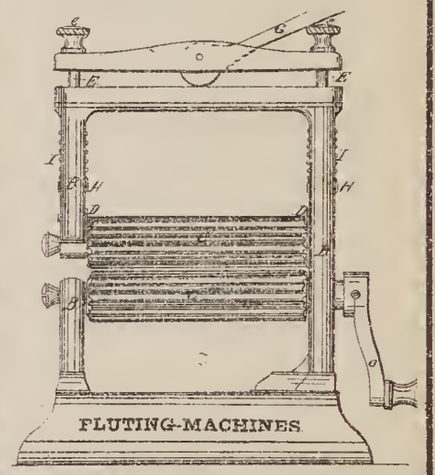
92,372, A. SCHARFF. **WHIPS.**



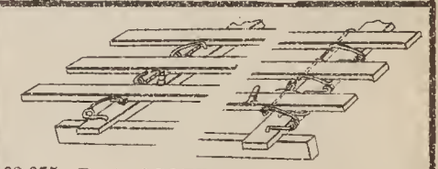
92,373, CHRISTIAN SCHMIDT
PUMPS.



92,374, CARL SCHORTAU.



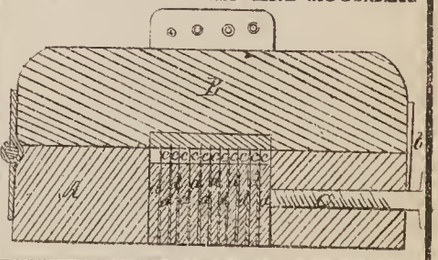
FLUTING-MACHINES.



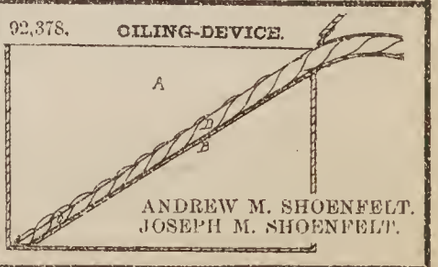
92,375, D. A. SCOTT.
SPRING-BED BOTTOM.

92,376, S. B. SHAW. **BEVERAGE.**

92,377, S. W. SHELLER.
FLY-STRING CUTTER AND ROUNDER.

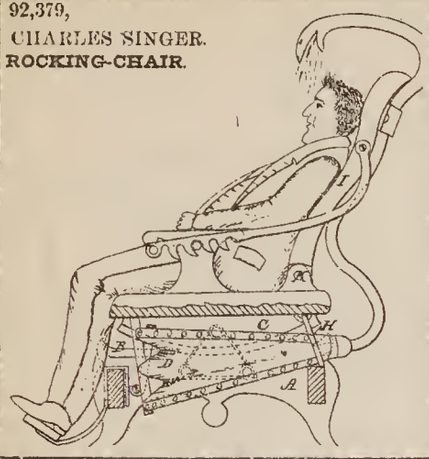


92,378. **CILING-DEVICE.**

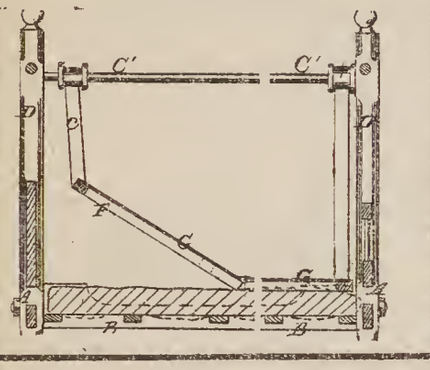


ANDREW M. SHOENFELT.
JOSEPH M. SHOENFELT.

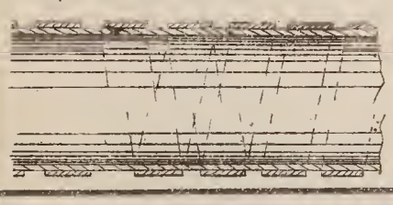
92,379,
CHARLES SINGER.
ROCKING-CHAIR.



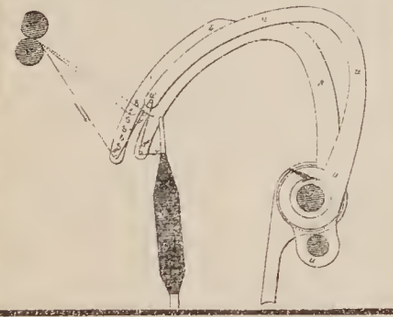
92,380, FRANKLIN H. SMITH.
WILLIAM F. WOOD.
INVALID-BEDSTEAD.



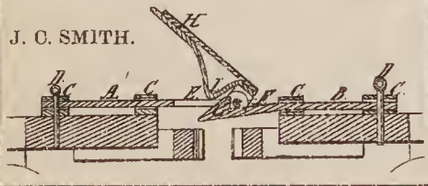
92,381,
GEO. C. SMITH.
PROCESS OF MAKING SUCTION RUBBER HOSE.



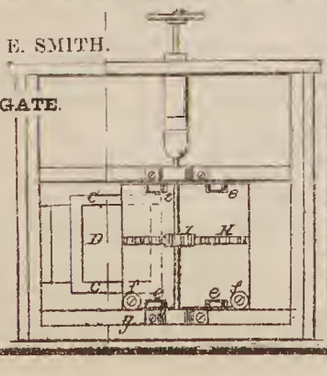
92,382, JOHN BURNS SMITH.
MULES FOR SPINNING.



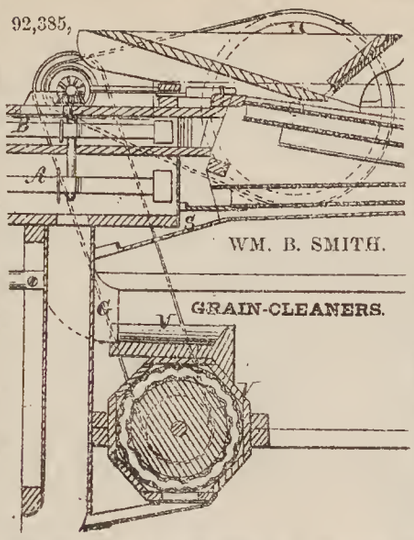
92,383 **RAILWAY-CAR COUPLING.**
J. C. SMITH.



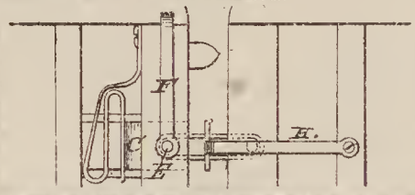
92,384,
VERNON E. SMITH.
WATER-GATE.



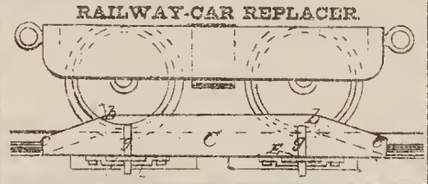
92,385,
WM. B. SMITH.
GRAIN-CLEANERS.



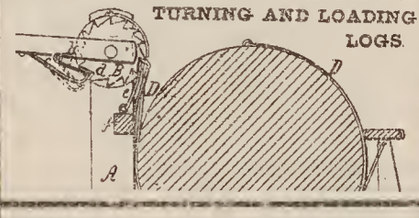
92,386, D. G. W. SNYDER.
RAILWAY-CAR COUPLING.



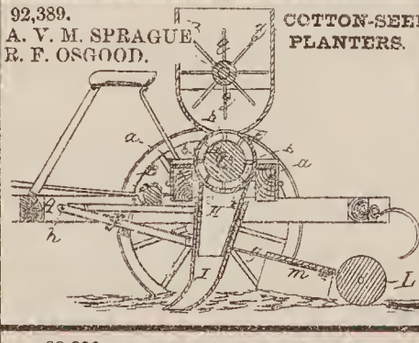
92,387, ENOS SNYDER.
RAILWAY-CAR REPLACER.



92,388. SAMUEL SNYDER. **DEVICE FOR TURNING AND LOADING LOGS.**

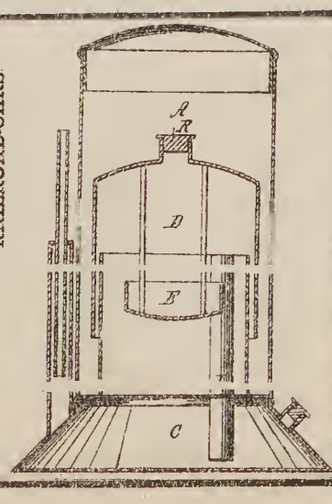


92,389.
A. V. M. SPRAGUE.
R. F. OSGOOD.
COTTON-SEED PLANTERS.

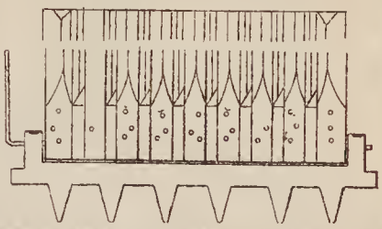


92,390, **CONCRETE PAVEMENT.**
HARVEY B. STEELE.

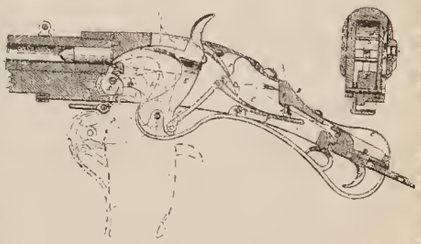
92,391, JOHN H. STEINER.
APPARATUS FOR GENERATING AND CARBURETTING GAS FOR LIGHTING RAILROAD-CARS.



92,392, GEORGE STEVENSON.
HARVESTER-DROPPERS.

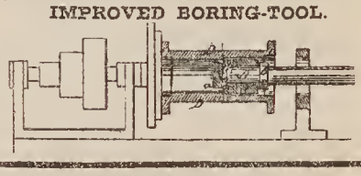


92,393, J. T. STOAKES.
BREECH-LOADING FIRE-ARM.

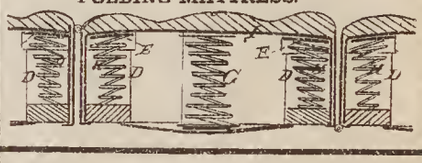


92,394, JOHN R. STRICKLAND.
COMPOUND FOR CURE OF DROPSY.

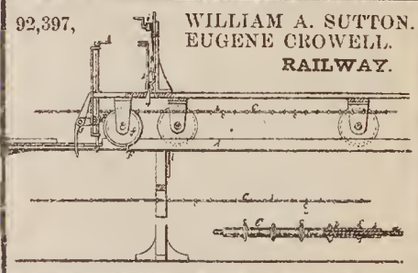
92,395, CHARLES CARROL STRONG.
IMPROVED BORING-TOOL.



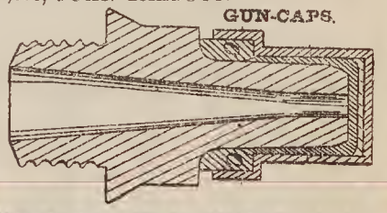
92,396, M. SULZBACHER.
FOLDING MATTRESS.



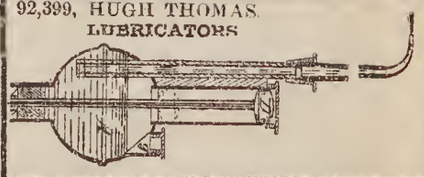
92,397,
WILLIAM A. SUTTON.
EUGENE CROWELL.
RAILWAY.



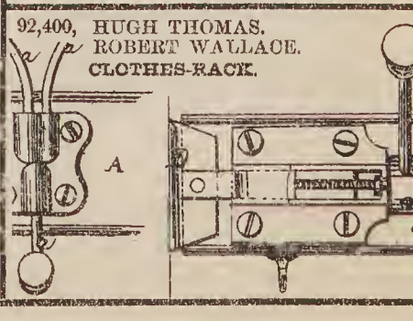
92,398, JOHN TALBOTT.
GUN-CAPS.



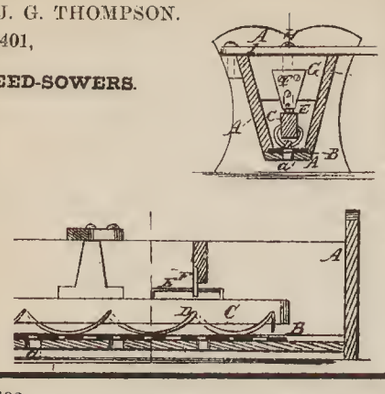
92,399, HUGH THOMAS.
LUBRICATORS.



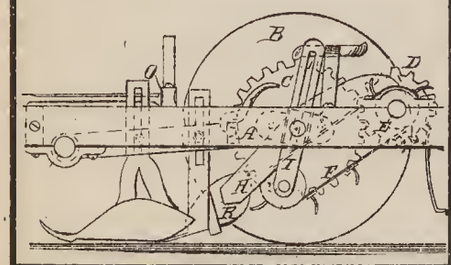
92,400, HUGH THOMAS.
ROBERT WALLACE.
CLOTHES-RACK.



J. G. THOMPSON.
92,401,
SEED-SOWERS.

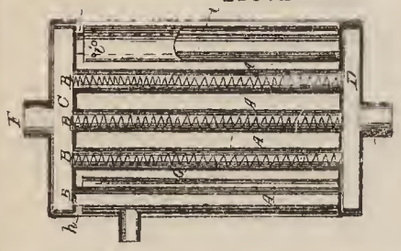


92,402, WILLIAM J. THOMPSON.
POTATO-DIGGER AND PICKER.



92,403, WM. H. TOWERS.
COATING HOOP-SKIRT WIRE.

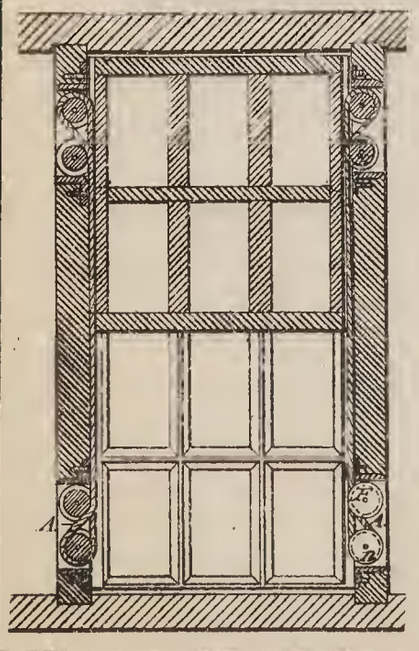
MARSHALL TURLY.
J. D. BAYLISS.
92,404,
STOVE-DRUM.



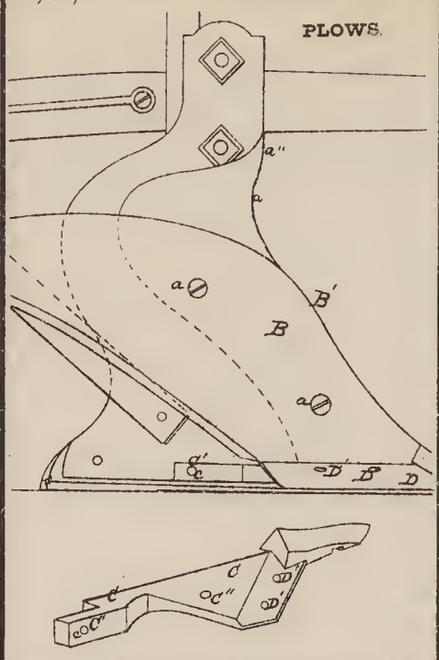
92,405, CARL WANDEL.
HYDRATE OF MAGNESIA.

92,406, CARL WANDEL.
GRANULATED SUGAR.

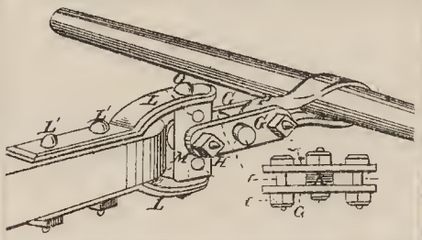
92,407, R. A. WARNER.
WINDOW-SASH BALANCE.



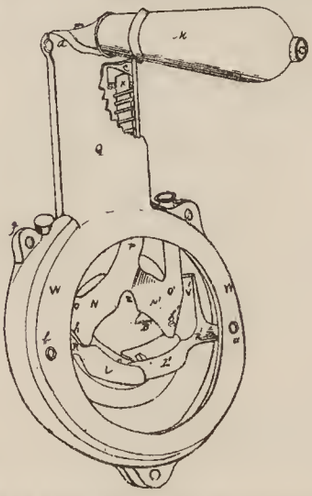
92,408, GEO. WATT.
PLOWS.



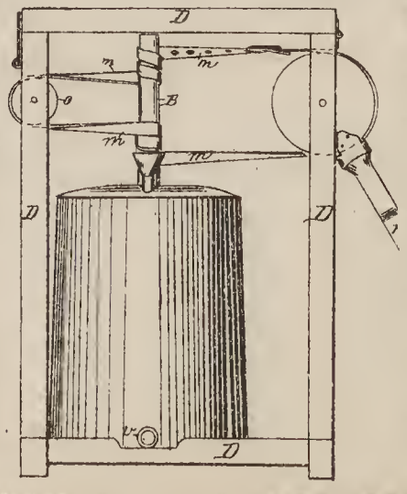
92,409, GEO. WATT.
CLEVIS-ATTACHMENT FOR PLOWS.



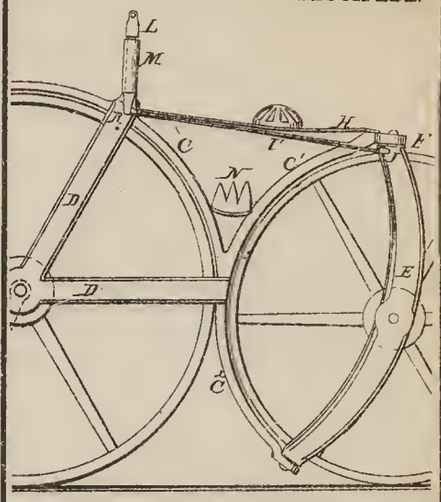
92,410, **CORN-SHELLERS.**
THEOPHILUS WEAVER.



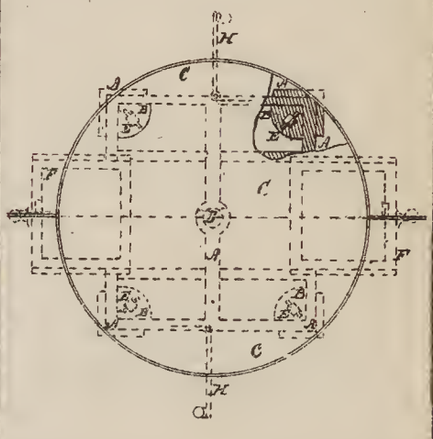
DANIEL WIDMAYER.
92,411, **CHURNS.**



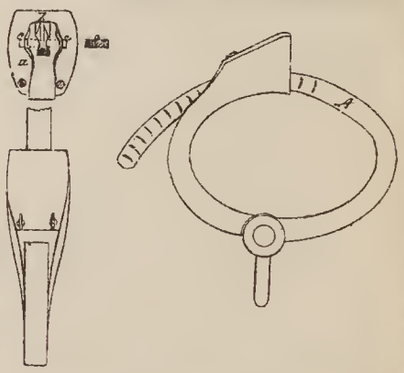
92,412, ALBERT OLIVER WILLCOX, Jr.
VELOCIPEDE.



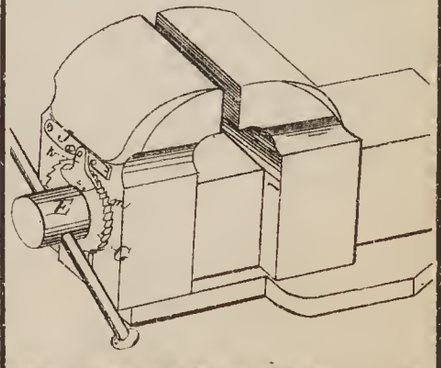
92,413, R. WILSON.
REVOLVING DINING-TABLE.



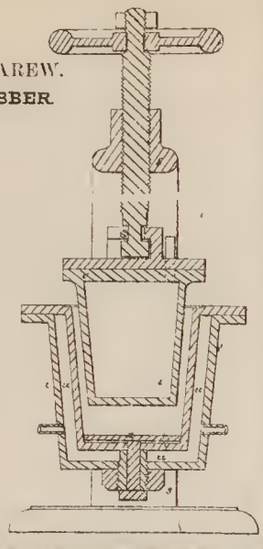
JAMES A. WISNER.
MONSON HOYT.
92,414,
LOCKS FOR HANDCUFFS.



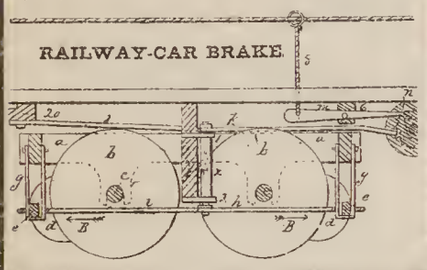
THOMAS L. BAYLIES.
EDWIN CRAWLEY.
3,530,
VISES.



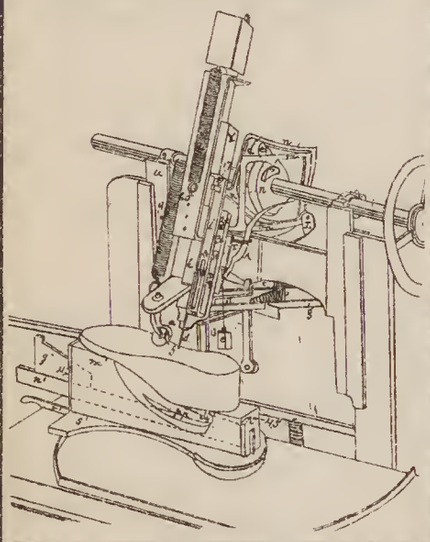
3,531, JAMES S. CAREW. INDIA RUBBER.



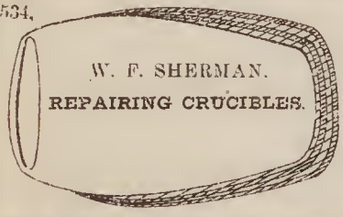
3,532, JOHN DAVIS. RAILWAY-CAR BRAKE.



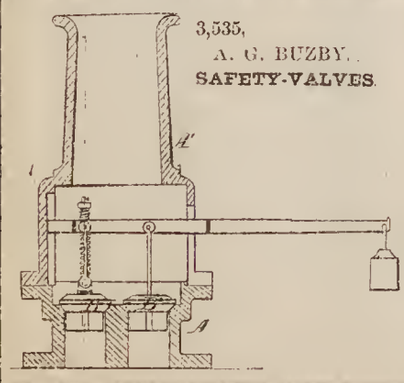
3,533, ALPHEUS C. GALLAHUE. PEGGING BOOTS AND SHOES.



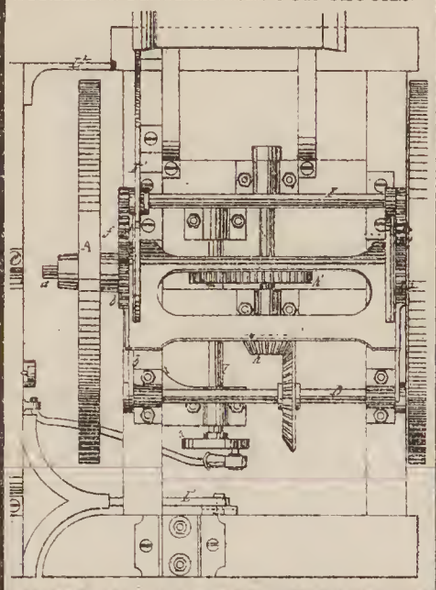
3,534, W. F. SHERMAN. REPAIRING CRUCIBLES.



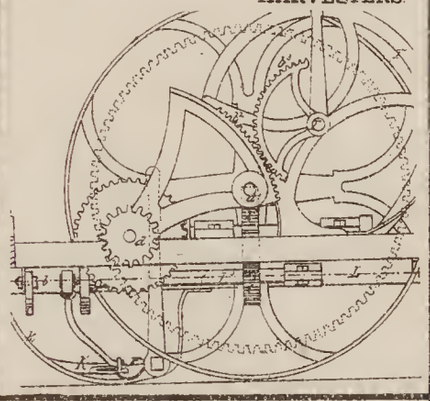
3,535, A. G. BUZBY. SAFETY-VALVES.



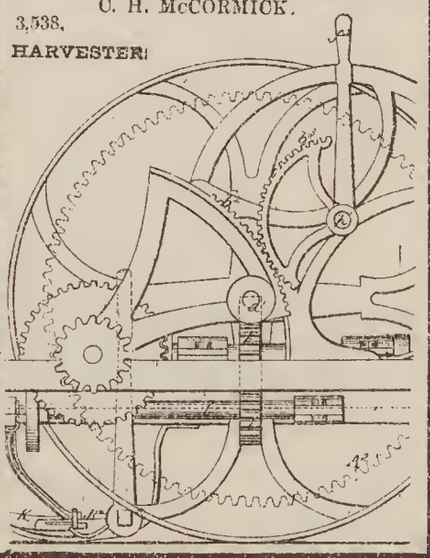
3,536, JOHN B. MAYER. STRIKING-MECHANISM FOR CLOCKS.



3,537, C. H. McCORMICK. HARVESTERS.

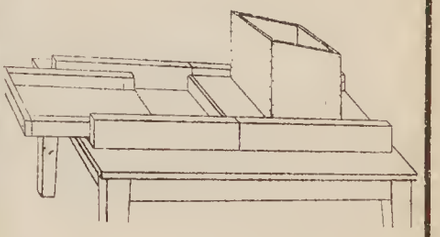


3,538, C. H. McCORMICK. HARVESTER.

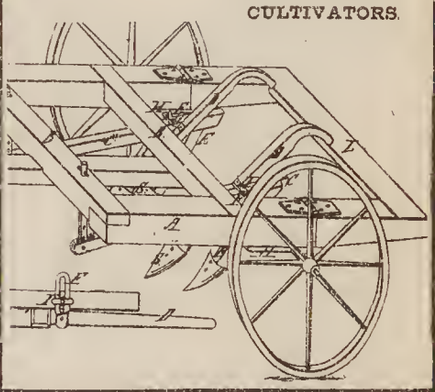


3,539, W. S. SPRATT. PLOWS.

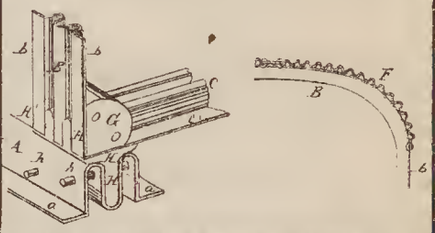
3,540, CLAUS SPRECKELS. CRUSHED SUGAR.



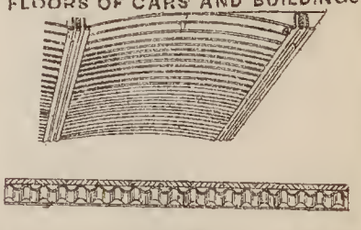
3,541, J. A. WOODWARD. S. S. WOODWARD. THOMAS MASON. CULTIVATORS.



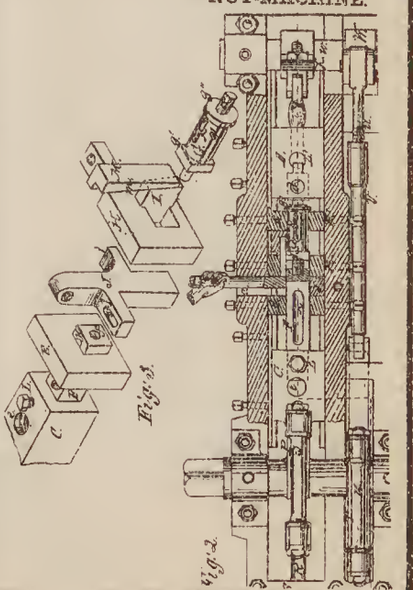
3,542, R. MONTGOMERY. RAILWAY-CAR.



3,543, R. MONTGOMERY. FLOORS OF CARS AND BUILDINGS.



3,544, DAVID HOWELL. NUT-MACHINE.



ILLUSTRATIONS OF PATENTS

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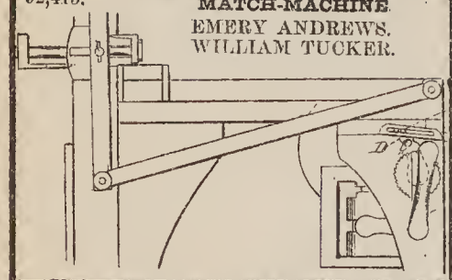
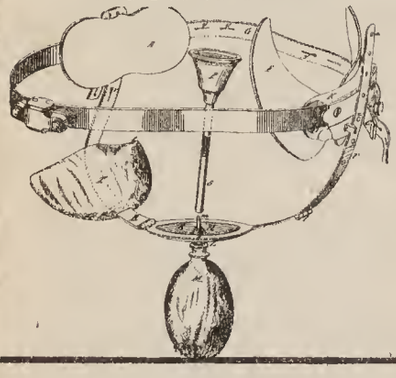
JULY 13, 1869.

92,415. **MATCH-MACHINE.** EMERY ANDREWS. WILLIAM TUCKER.

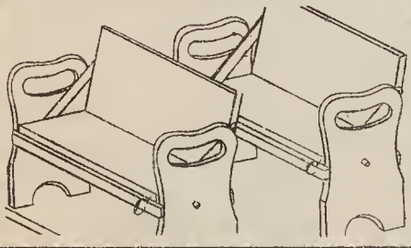


92,416, ROBERT ANDREWS. **FINISHING AND DRESSING SHEEP-SKINS FOR LEATHER**

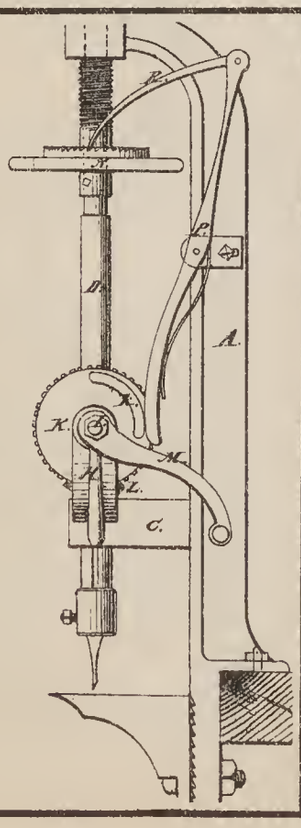
92,417. A. D. ANGELL. **UTERINE SUPPORTER.**



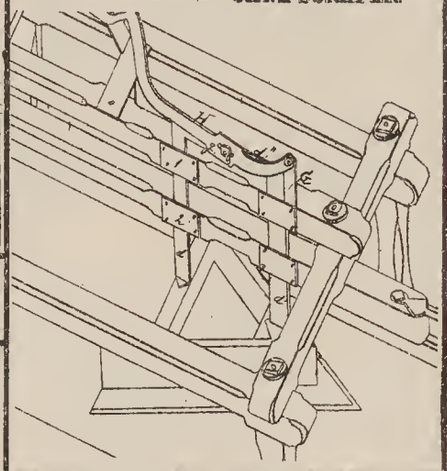
92,418, ARTHUR BARBARIN. **RAILWAY-CAR SEAT.**



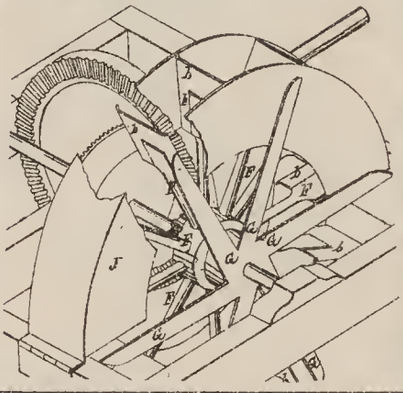
92,419, HAMILTON BATES. DANIEL L. BATES. **IMPROVED DRILL.**



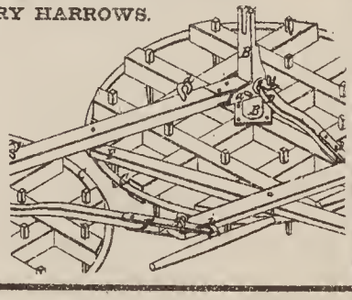
92,420, L. A. BRINGIER. N. B. TRIST. **CANE-SCRAPER.**



92,421, E. J. BROWN **MAKING LEVEES.**

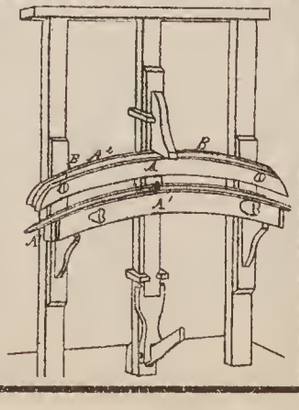


92,422, MYRON B. CHAMPION. **ROTARY HARROWS.**

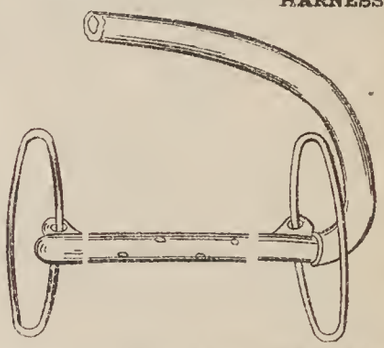


92,423, JONAS CLARK. **CIGAR-TIPS.**

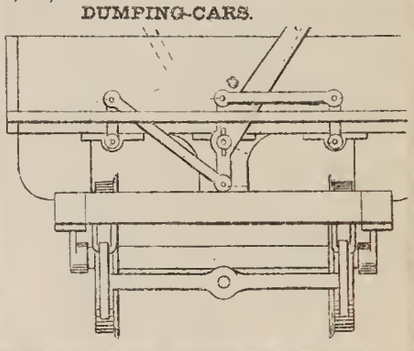
92,424, JAMES B. CLEVELAND. HENRY C. GUILDERSLEIN. **SETTING, FITTING, AND TEMPERING SPRING-PLATES.**



92,425. WM. COMPTON. **REFRESHING HORSES WHILE IN HARNESS.**

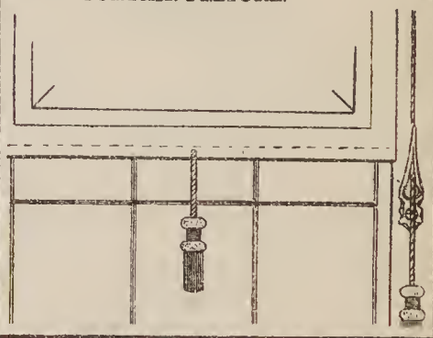


92,426, JOHN G. CONLON. **DUMPING-CARS.**

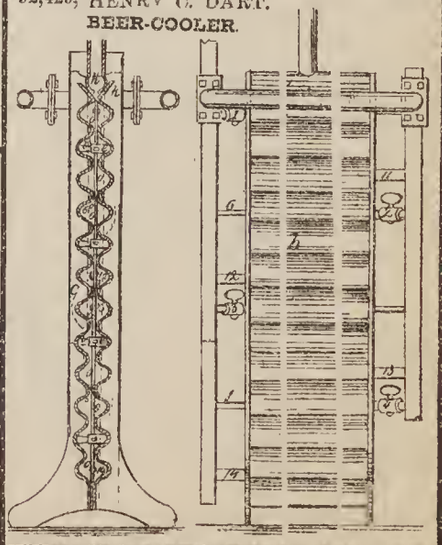


92,427, P. M. CONSUEGRA. RAMON ANTIGÜEDAD. **TOBACCO PAPER.**

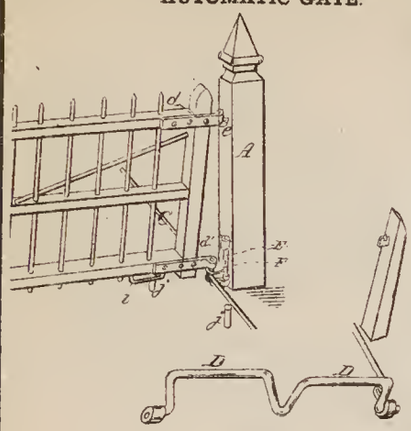
92,428, JOHN CRANDELL. P. W. SMITH. **CURTAIN-FIXTURE.**



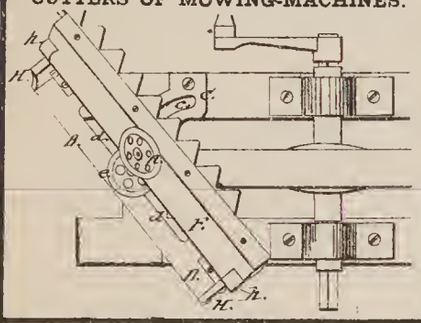
92,429, HENRY C. DART. **BEER-COOLER.**



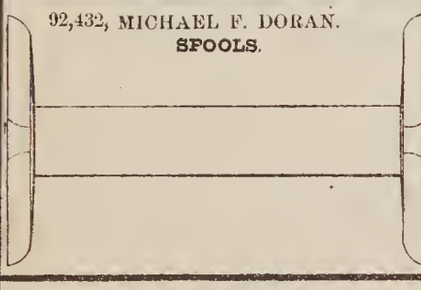
92,430, BENJAMIN F. DICKEY.
AUTOMATIC GATE.



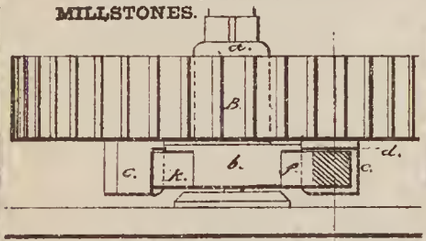
92,431, HENRY DODGE.
MACHINE FOR GRINDING THE CUTTERS OF MOWING-MACHINES.



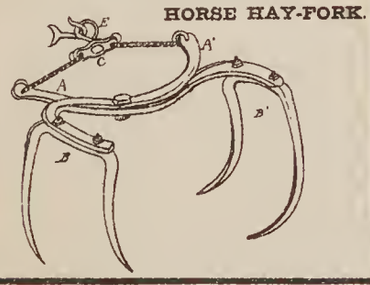
92,432, MICHAEL F. DORAN.
SPOOLS.



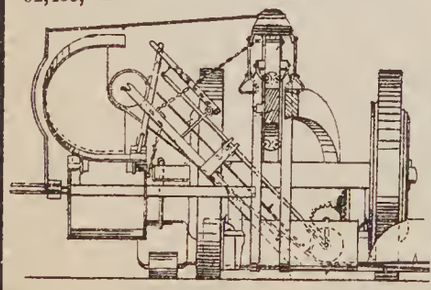
92,433, J. J. DOUGHTY.
STEADYING THE MOTION OF MILLSTONES.



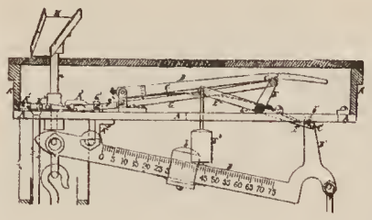
92,434, JOHN A. EBERLY.
HENRY WECHTER.
HORSE HAY-FORK.



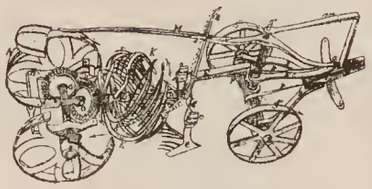
92,435, EZRA EMMERT. **HARVESTERS.**



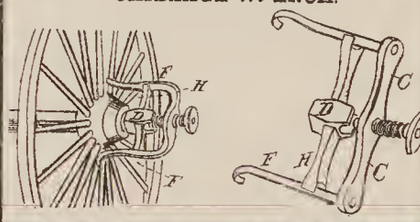
92,436. HENRY FAIRBANKS.
GRAIN-WEIGHING SCALE.



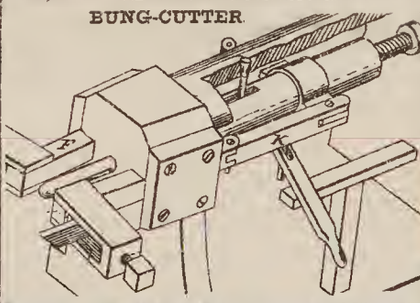
92,437, ELIAS T. FORD.
POTATO-DIGGERS.



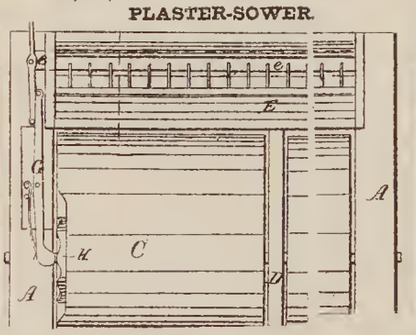
92,438, ELIAS T. FORD.
CARRIAGE-WRENCH.



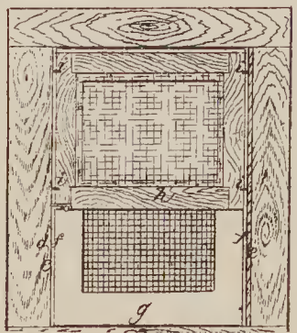
92,439. ANDREW GOETZINGER.
BUNG-CUTTER.



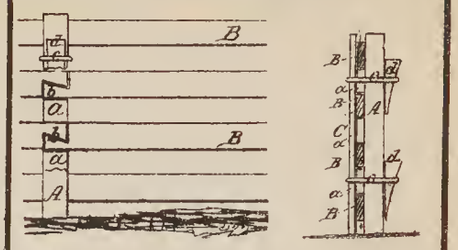
92,440, E. J. GORDON.
PLASTER-SOWER.



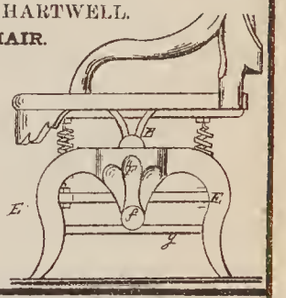
92,441,
JOHN M. GRISWOLD.
MOSQUITO-SCREEN.



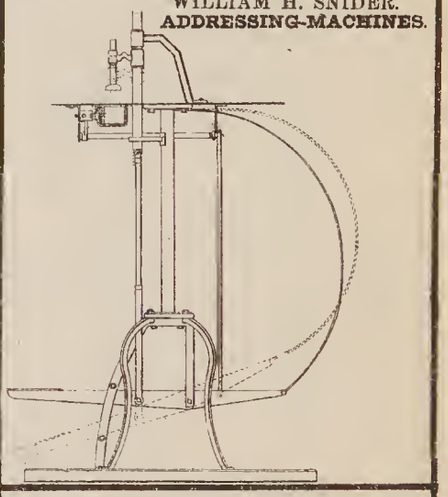
92,442, H. A. GROVER. **FENCE.**



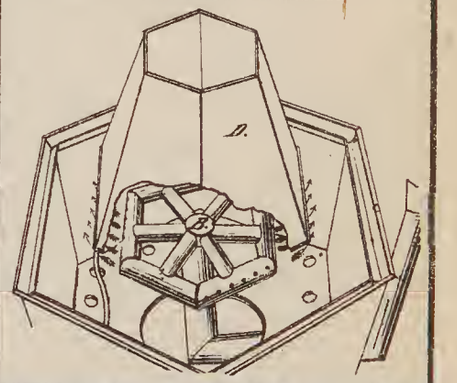
92,443, EDSON HARTWELL.
ROCKING-CHAIR.



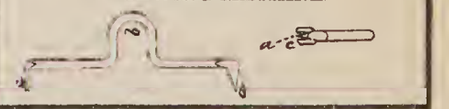
92,444, W. H. HENDERSON.
WILLIAM H. SNIDER.
ADDRESSING-MACHINES.



92,445, GARDNER HERRICK.
SAD-IRON HEATER.

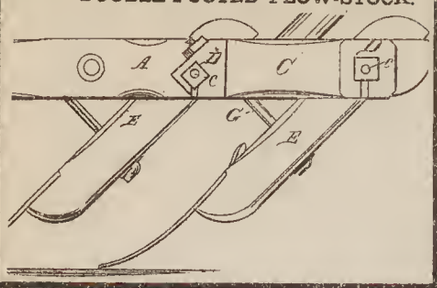


92,446, JOSEPH M. HOADLEY.
NEEDLE-SETTER FOR SEWING-MACHINE.

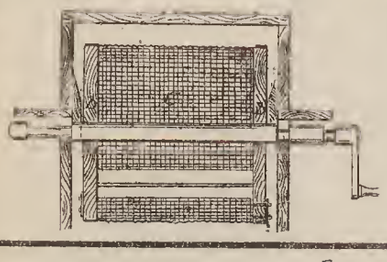


92,447, CHAS. HOEFINGHOFF. **COAL-BOX.**

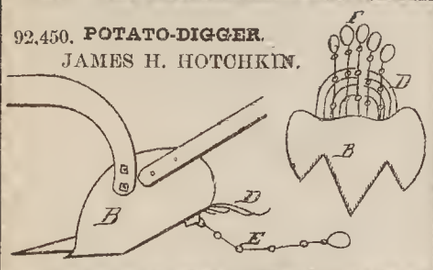
92,448, J. L. HOOD.
DOUBLE-FOOTED PLOW-STOCK.



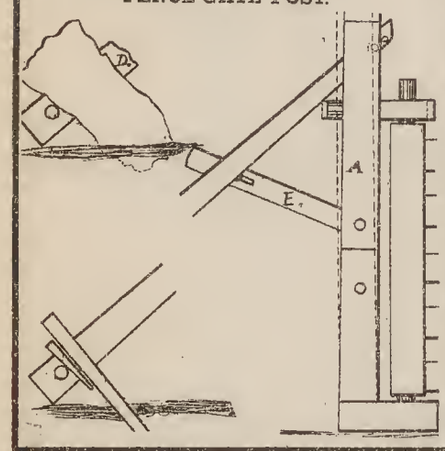
92,449, B. F. HORN. **ASH-SIFTER.**



92,450. **POTATO-DIGGER.**
JAMES H. HOTCHKIN.

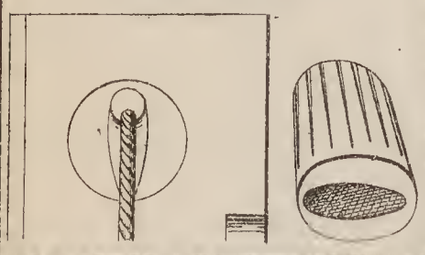


92,451, ELIJAH HUMPHREYS.
FENCE-GATE POST.

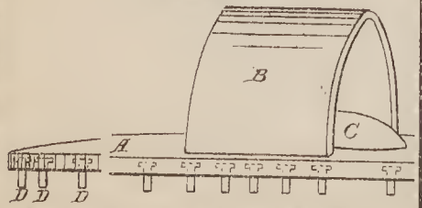


92,452, JOHN W. HYATT, Jr.
COATING AND BEAUTIFYING THE SURFACE OF BILLIARD-BALLS. KNIFE-HANDLES.

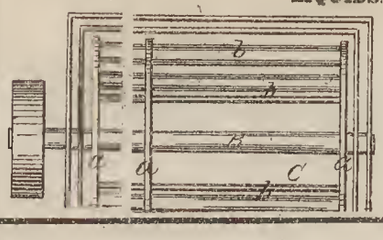
92,453, W. T. JAQUITH.
ROBERT CALHOUN.
SASH-CORD SHEAVE



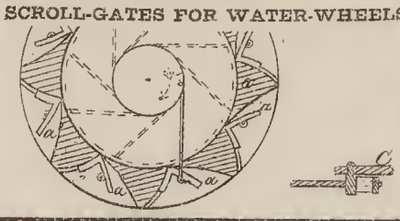
92,454, LEMUEL P. JENKS.
CURRY-COMB.



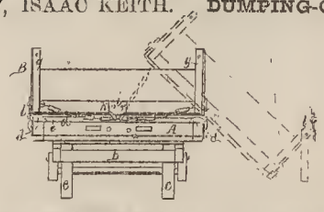
92,455, THOS. W. JOHNSON.
APPARATUS FOR CONCENTRATING EXTRACTS OF BARK AND OTHER LIQUIDS.



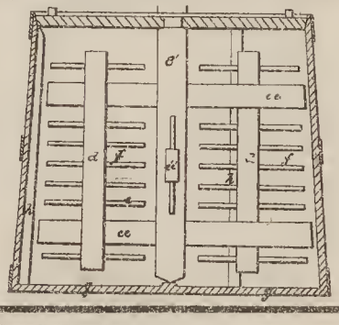
92,456, JULIUS H. JONES.
SCROLL-GATES FOR WATER-WHEELS.



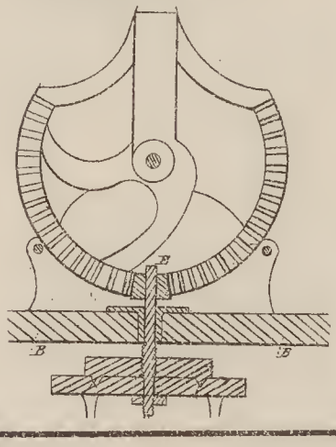
92,457, ISAAC KEITH. **DUMPING-CAR**



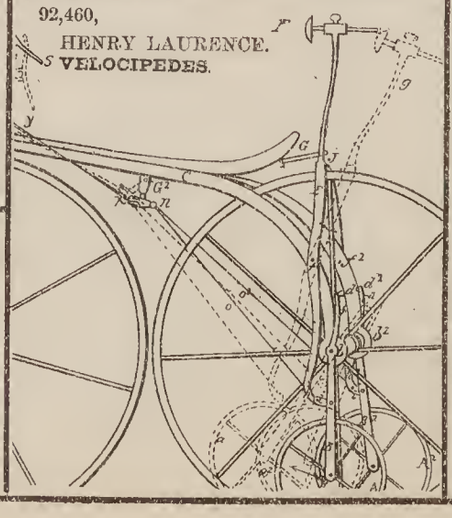
92,458, AUG. KINDERMANN. **CHURNS.**



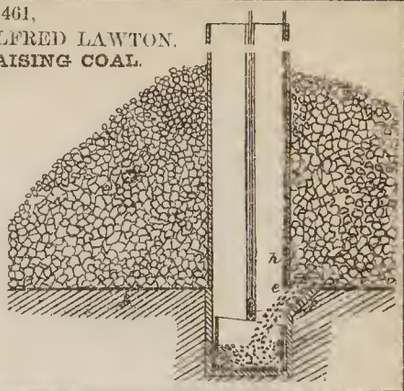
92,459, C. H. KNOX.
WASHING-MACHINE.



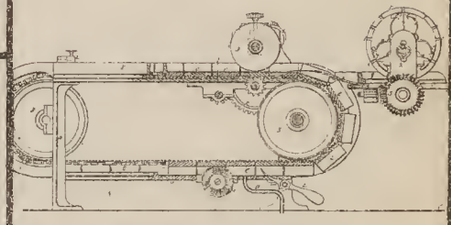
92,460,
HENRY LAURENCE.
VELOCIPEDES.



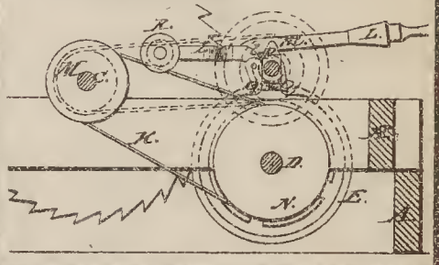
92,461,
ALFRED LAWTON.
RAISING COAL.



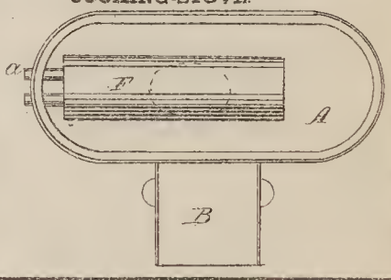
92,462, PETER H. MAYO.
MAKING PLUG TOBACCO.



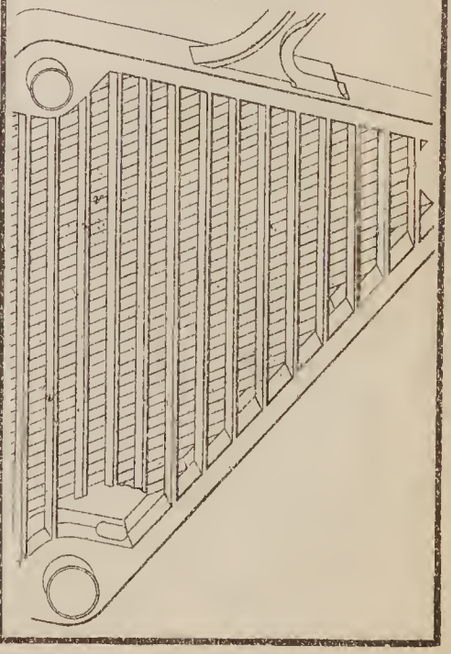
92,463, GEORGE L. McCAHAN.
SAW-MILLS.



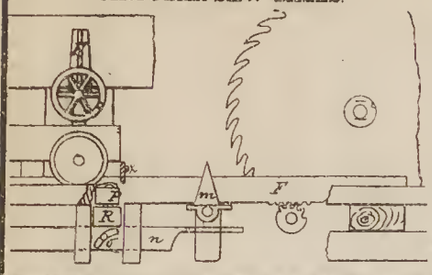
92,464, JAMES H. McCONNELL.
COOKING-STOVE.



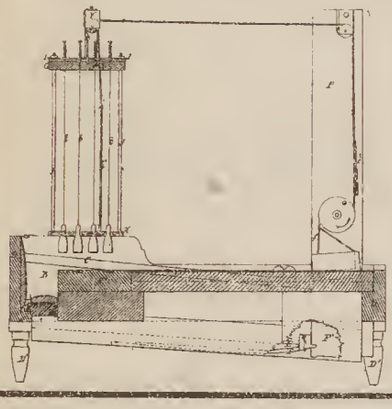
92,465, WM. NEEDHAM.
J. KITE.
DEPURATING LIQUIDS.



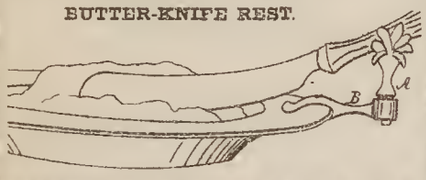
92,466, JOHN ORM.
CIRCULAR-SAW MILLS.



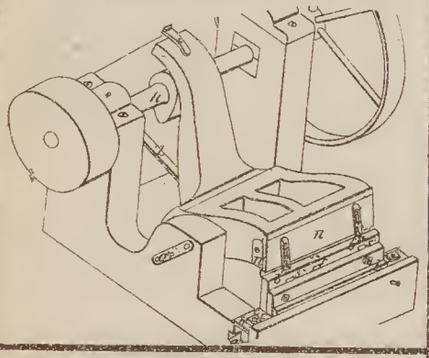
92,467, AMOS T. PEIRCE.
BOWLING-ALLEYS.



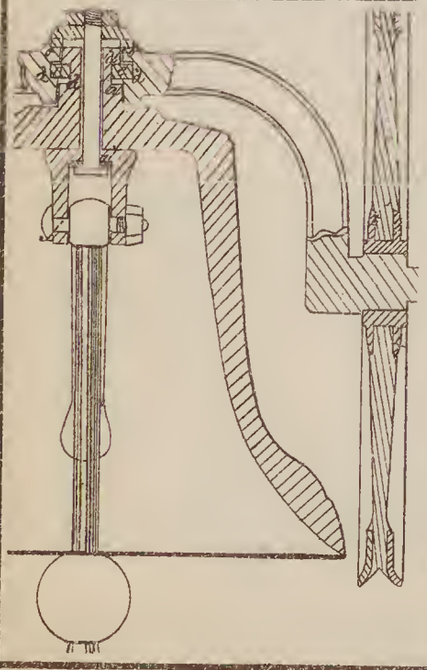
92,468, BENJAMIN D. REED.
BUTTER-KNIFE REST.



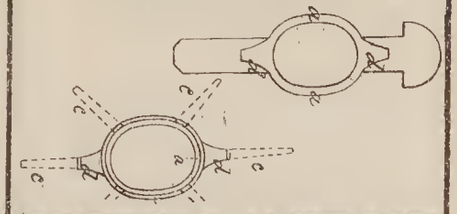
92,469, JACOB REESE.
BANDS FOR SHINGLE-BUNDLES.



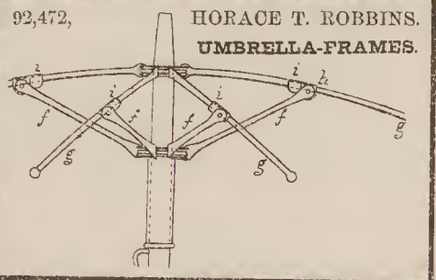
92,470, JOSHUA REGESTER.
ROTATING BELL AND BELL-WHEEL.



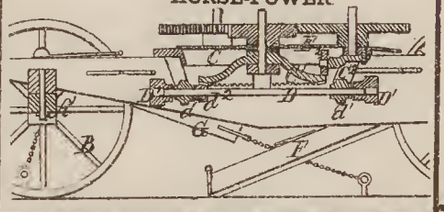
92,471, GEORGE L. RICHARDSON,
JAMES C. MOODY.
PICKER-CUSHIONS FOR LOOMS.



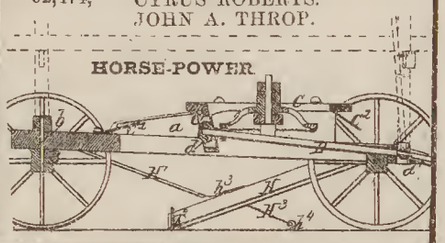
92,472, HORACE T. ROBBINS.
UMBRELLA-FRAMES.



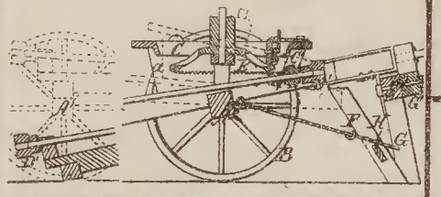
92,473, CYRUS ROBERTS.
JOHN A. THROP.
HORSE-POWER.



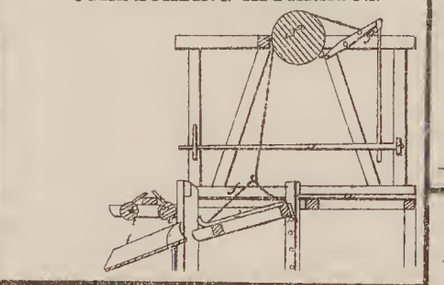
92,474, CYRUS ROBERTS.
JOHN A. THROP.
HORSE-POWER.



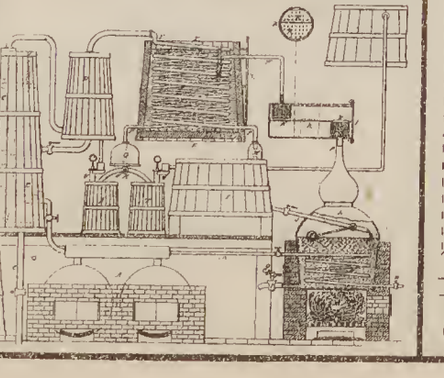
92,475, CYRUS ROBERTS.
JOHN A. THROP. **HORSE-POWER.**



92,476, SAMUEL S. ROBERTS.
COAL-LOADING APPARATUS.

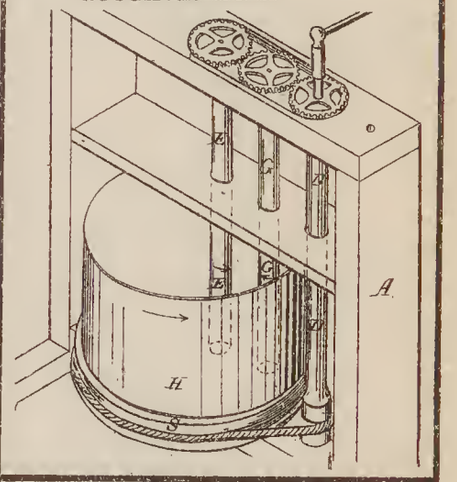


92,477, WILLIAM ROBSON.
GEORGE W. ROBSON.
STILLS FOR ALCOHOLIC SPIRITS.

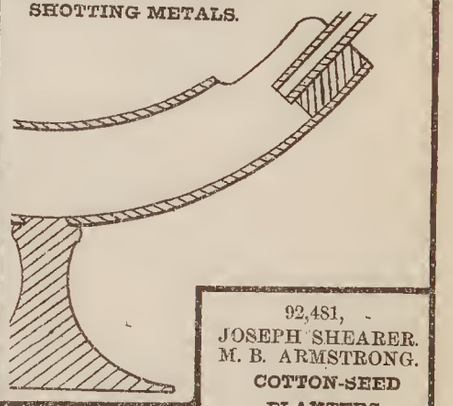


92,478, HENDERSON ROSS.
D. F. AGNEW.
IRON AND STEEL.

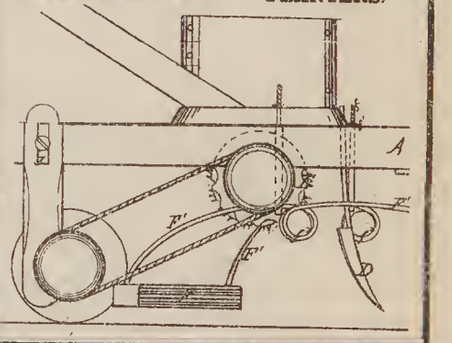
92,479, C. B. SAWYER.
DOUGH-KNEADER.



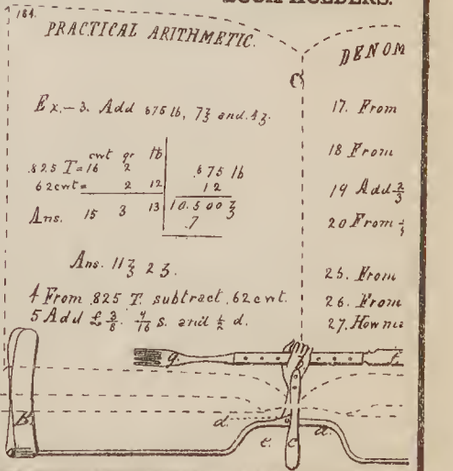
92,480, THOMAS SHAW.
SHOTTING METALS.



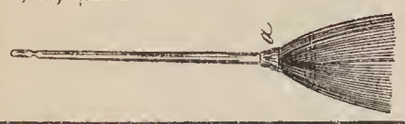
92,481, JOSEPH SHEARER.
M. B. ARMSTRONG.
COTTON-SEED PLANTERS.



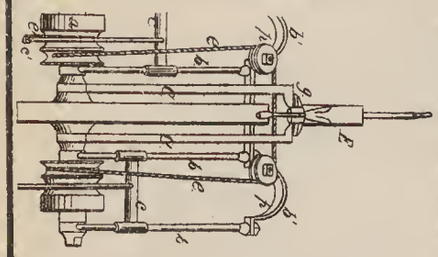
92,482, CORELLI W. SIMPSON.
BOOK-HOLDERS.



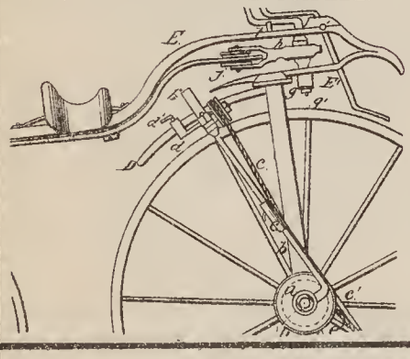
92,483, ALBERT SINCLAIR. **BROOM.**



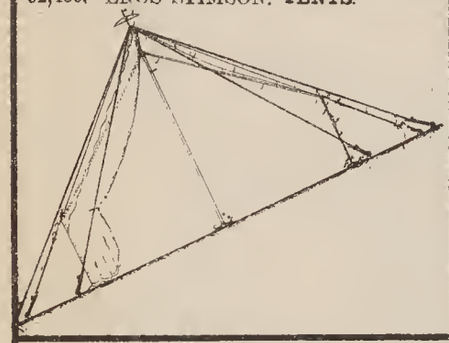
92,484, CHRISTIAN SMITH. **TANNING SKINS.**



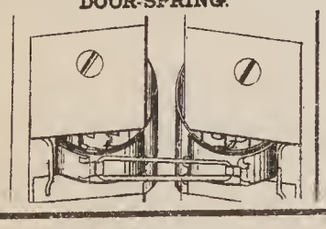
92,485, W. H. SMITH. **VELOCIPEDE.**



92,486, ENOS STIMSON. **TENTS.**

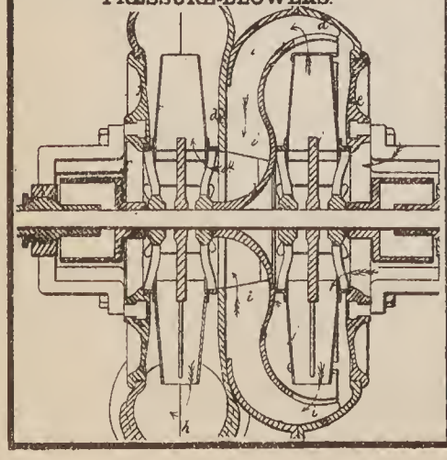


92,487, PAUL STOCKMAN. **DOOR-SPRING.**

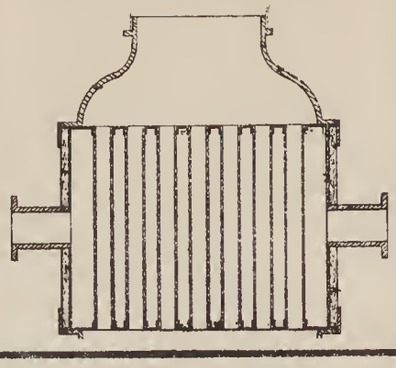


92,488, DAVID M. STRAIN, JR. **CLOTHES-PIN.**

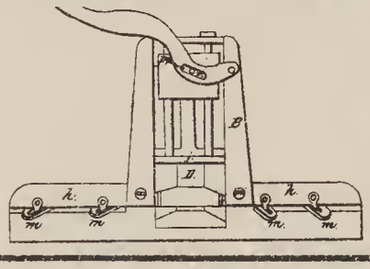
92,489, B. F. STURTEVANT. **PRESSURE-BLOWERS.**



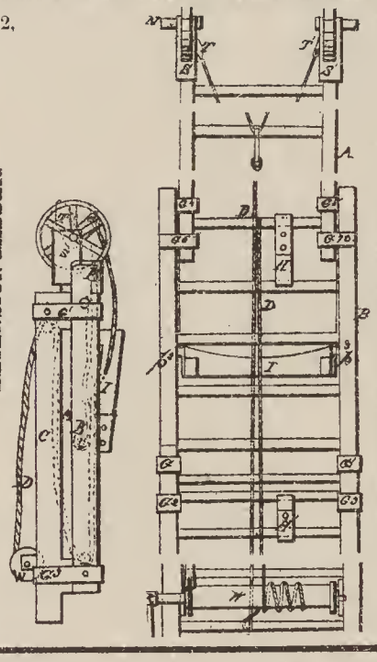
92,490, BENJ. F. STURTEVANT. **BLAST-APPARATUS.**



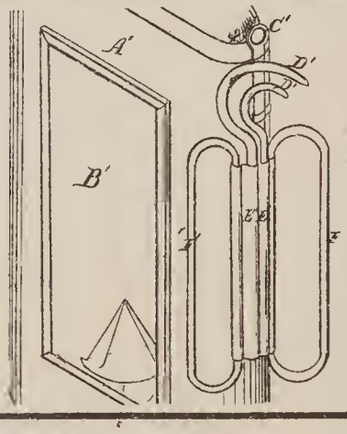
92,491, ROBERT F. TOMPKINS. **MACHINE FOR CUTTING BEAD-MITRES.**



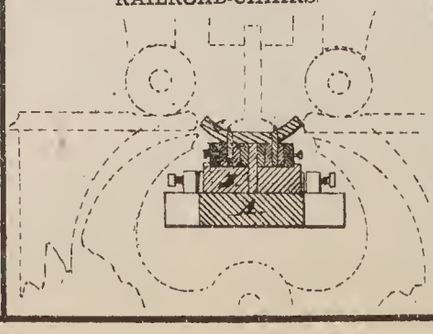
92,492, WILLIAM F. TRAUTMAN. **EXTENSION-LADDER.**



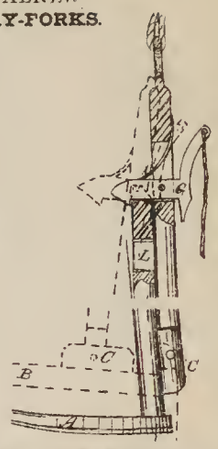
92,493, ELBRIDGE G. TURNER. **SIGNAL-LANTERNS.**



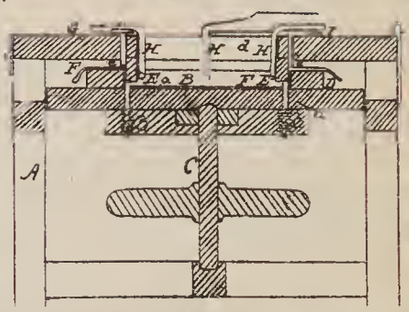
92,494, WM. VAN ANDEN. **RAILROAD-CHAIRS.**



92,495, JOHN M. WALKER **HORSE HAY-FORKS.**

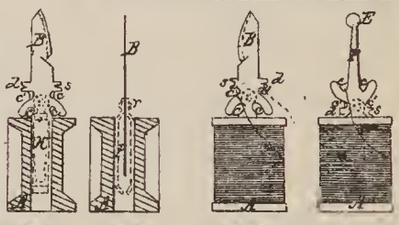


92,496, G. A. WATKINS. **PRESSING THE SEATS AND BACKS OF CHAIRS AND SETTEES INTO THEIR FRAMES.**

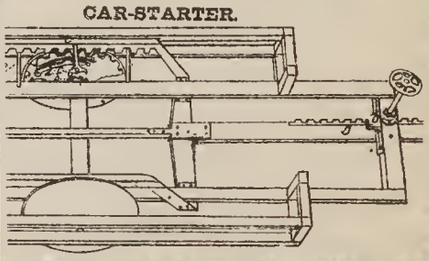


92,497, J. BERTRAM WEBSTER. **TOBACCO-SUBSTITUTE.**

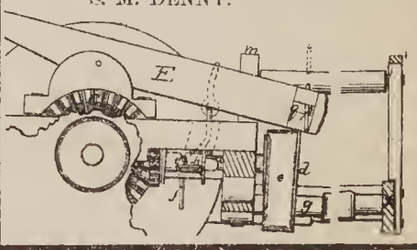
92,498, GEORGE WELLS. **WORK-TABLE IMPLEMENT AND SPOOL OF THREAD COMBINED.**



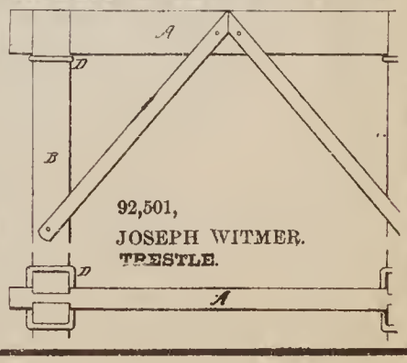
92,499, GREENLEAF A. WILBUR. **CAR-STARTER.**



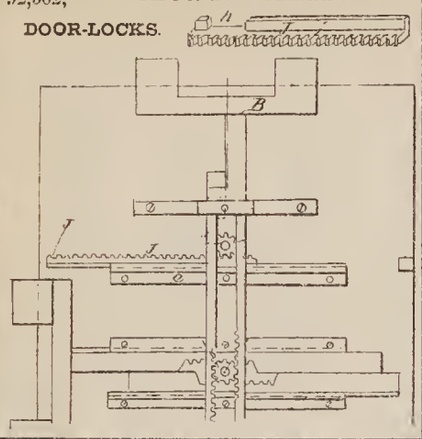
92,500, D. H. WILGUS. **HARVESTERS.** S. M. DENNY.



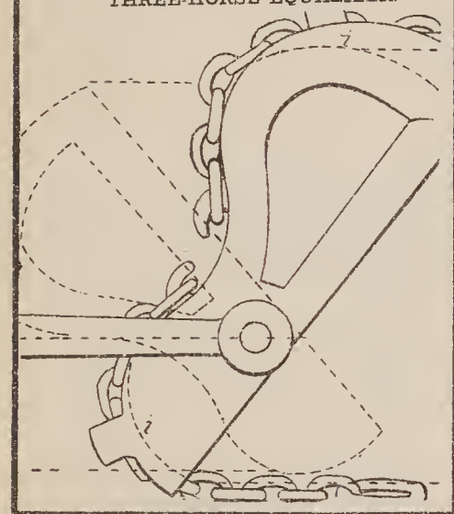
92,501, JOSEPH WITMER. **TRESTLE.**



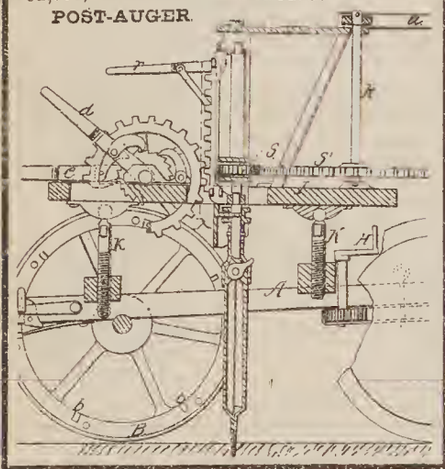
92,502, THOS. B. WORRELL.
DOOR-LOCKS.



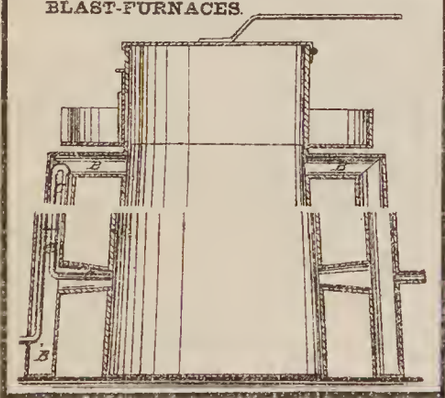
92,503, ELIAS M. WRIGHT.
THREE-HORSE EQUALIZER.



92,504, JAMES ARMSTRONG.
POST-AUGER.



92,505, GEORGE ATKINS.
BLAST-FURNACES.

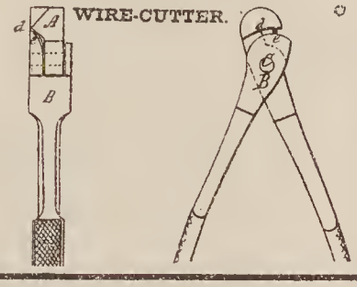


92,506,

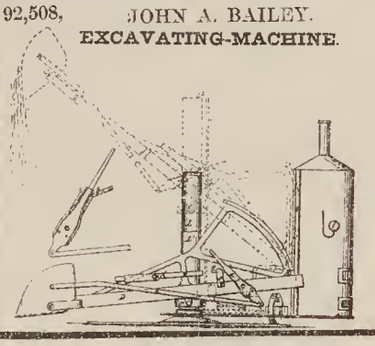
SAMUEL AULT.

PLASTERING-TROWEL.

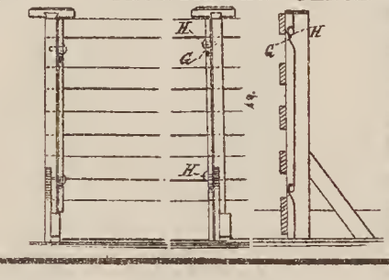
92,507, HENRY AXTELL.
WIRE-CUTTER.



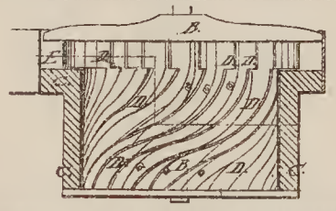
92,508, JOHN A. BAILEY.
EXCAVATING-MACHINE.



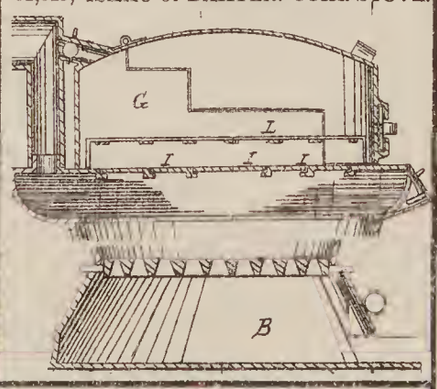
92,509. THOS. BARNES. **FENCE.**



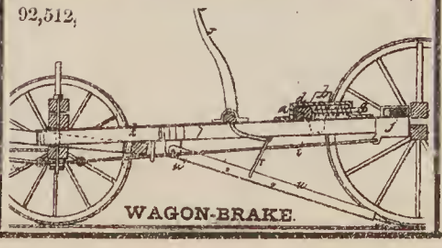
92,510, JEREMIAH BARNEY.
TURBINE WATER-WHEELS.



92,511, ISAAC J. BAXTER. **COAL-STOVE.**

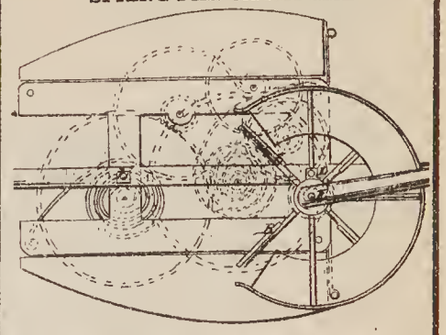


JOHN T. BENNETT,
92,512,

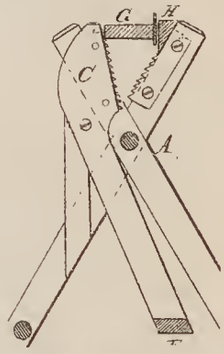


WAGON-BRAKE.

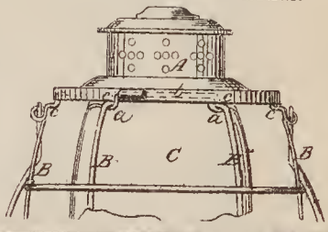
92,513, JOHN CAREY.
SPRING-FAN ATTACHMENT.



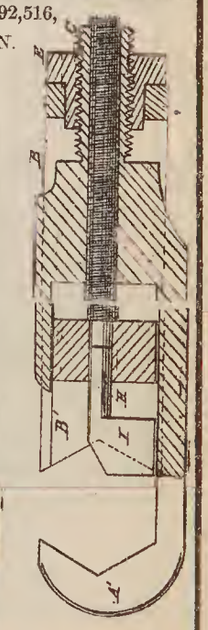
92,514, ERASTUS H. CLARK, **SAW-BUCK.**



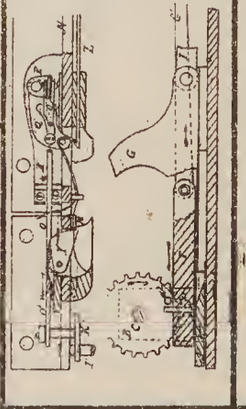
P. J. CLARK. **LANTERNS.**



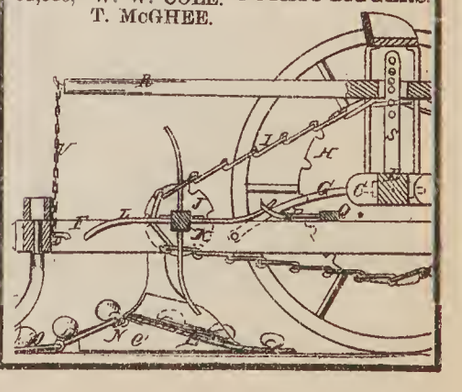
92,516,
EDWARD CLARKSON.
PIPE-CUTTER.

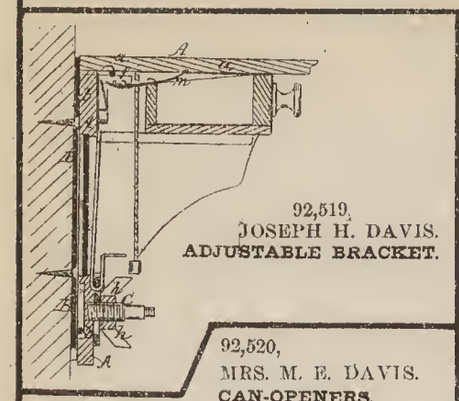


92,517,
E. H. CLINTON.
GRAIN-BINDERS.



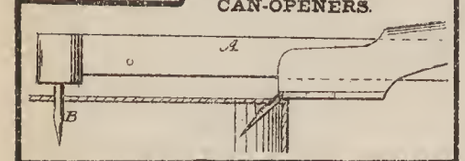
92,518, W. W. COLE. T. McGHEE. **POTATO-DIGGERS.**



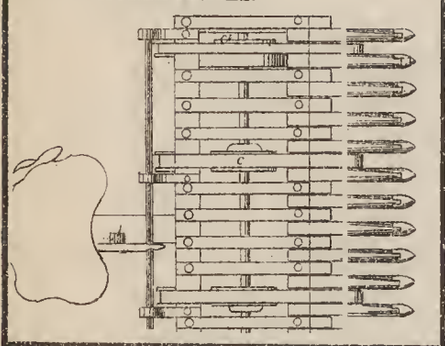


92,519, JOSEPH H. DAVIS. **ADJUSTABLE BRACKET.**

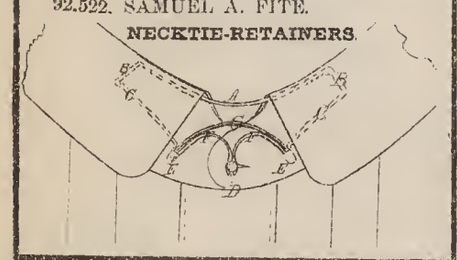
92,520, MRS. M. E. DAVIS. **CAN-OPENERS.**



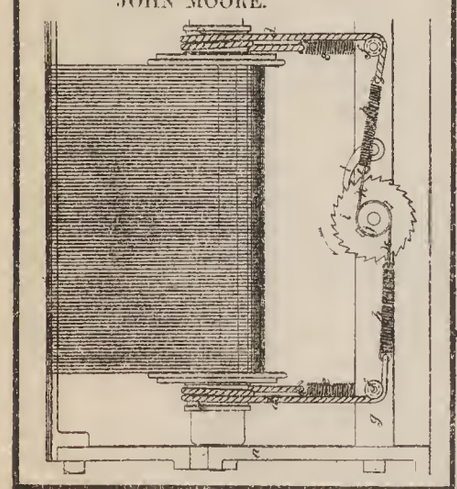
92,521, EDWARD DORR. **HORSE-RAKES.**



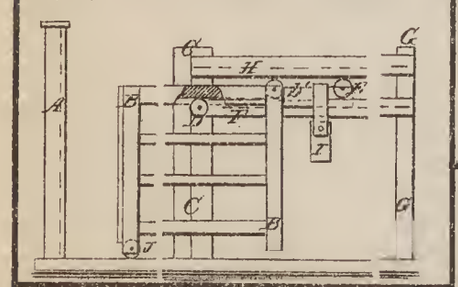
92,522, SAMUEL A. FITE. **NECKTIE-RETAINERS.**



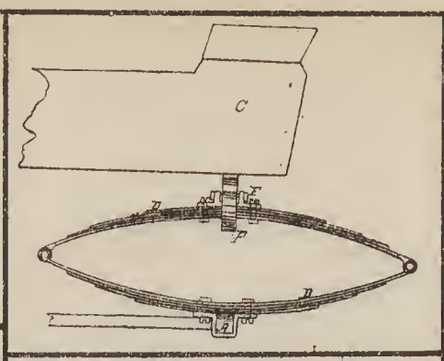
92,523, WILLIAM GADD. **LOOMS.** JOHN MOORE.



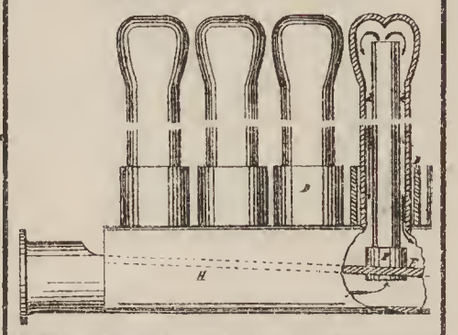
92,524, WM. H. GOODALE. **GATES.**



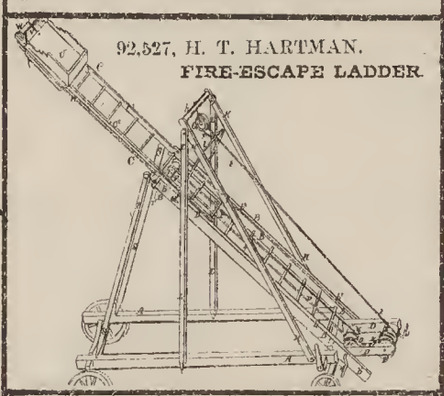
92,525, GEORGE R. GROOT. **CARRIAGE-SPRINGS.**



92,526, HOMER HAMILTON. **BLAST-HEATING FURNACE.**

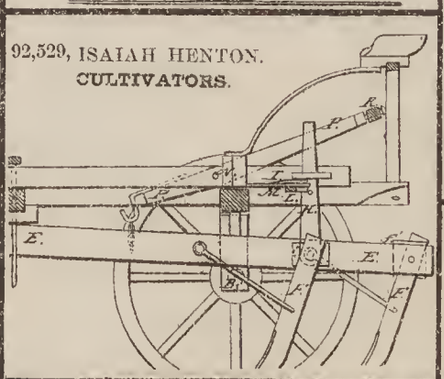


92,527, H. T. HARTMAN. **FIRE-ESCAPE LADDER.**



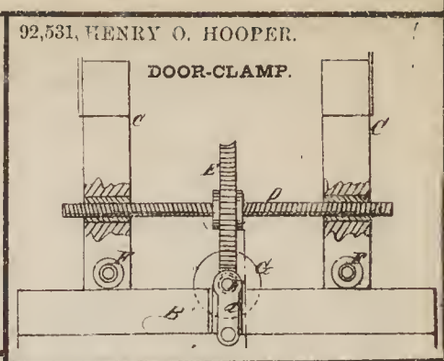
92,528, RICHARD C. HEMMINGS. **VELOCIPEDE.**

92,529, ISAIAH HENTON. **CULTIVATORS.**

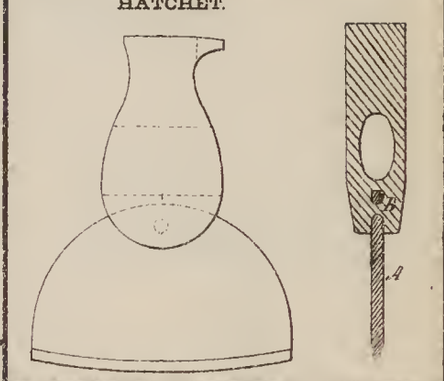


92,530, M. C. HEPTINSTALL. **FIRE-TONGS.**

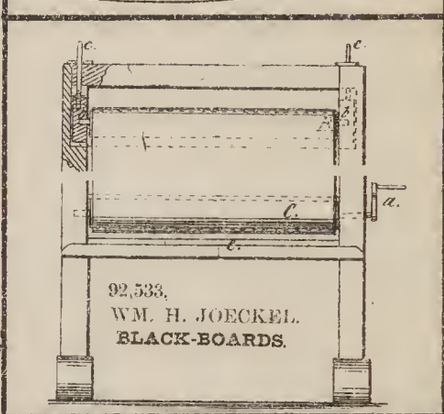
92,531, HENRY O. HOOPER. **DOOR-CLAMP.**



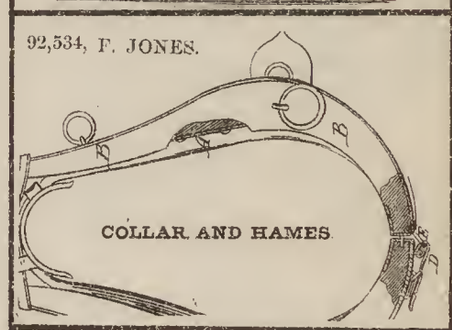
92,532, JABEZ JENKINS. **HATCHET.**



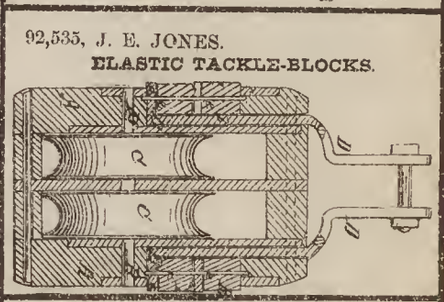
92,533, WM. H. JOECKEL. **BLACK-BOARDS.**



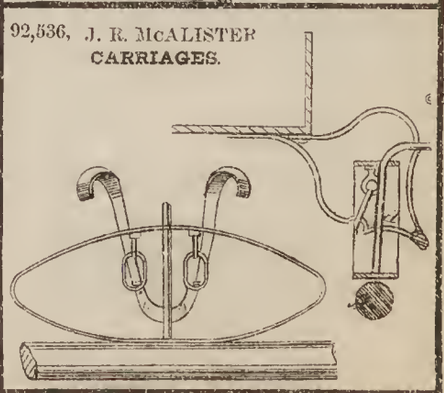
92,534, F. JONES. **COLLAR AND HAMES.**



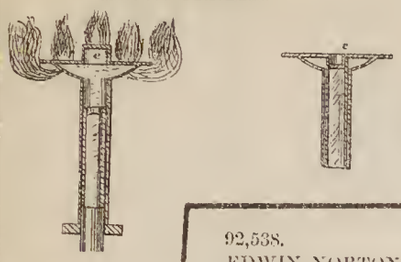
92,535, J. E. JONES. **ELASTIC TACKLE-BLOCKS.**



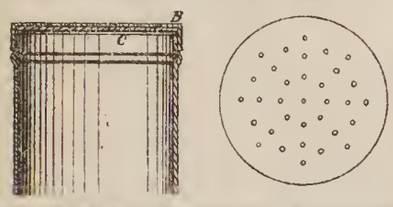
92,536, J. R. McALISTER **CARRIAGES.**



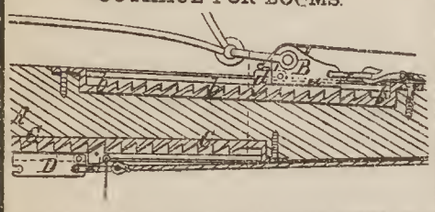
92,537, JOSEPH H. MELICK.
VAPOR-BURNERS.



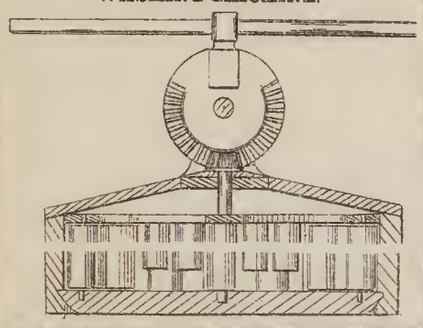
92,538.
EDWIN NORTON.
SPICE-CAN.



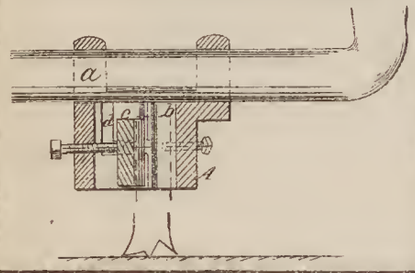
92,539. THOS. O'NEILL.
OUTHAUL FOR BOOMS.



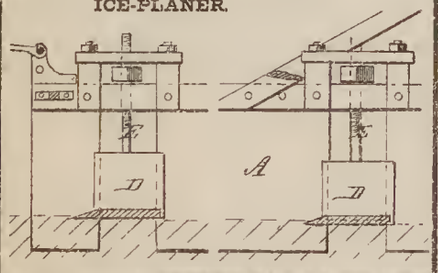
92,540, MOSES A. PAGE.
WASHING-MACHINE.



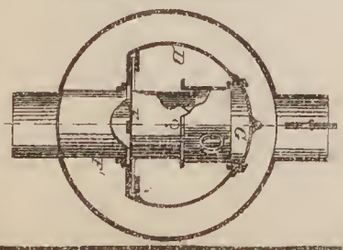
92,541, S. T. PEAT. **AUGER-HANDLES.**



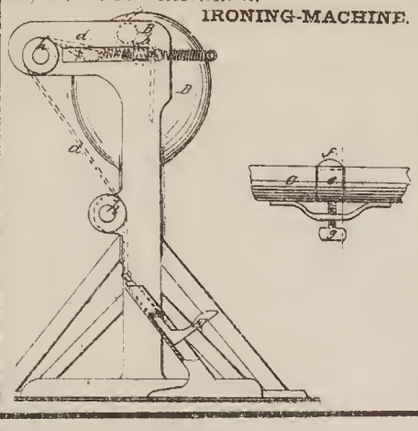
92,542, WILLIAM F. POUGH.
ICE-PLANER.



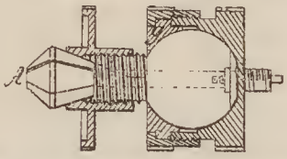
92,543, GEORGE F. REINHARDT.
DRUM AND OVEN.



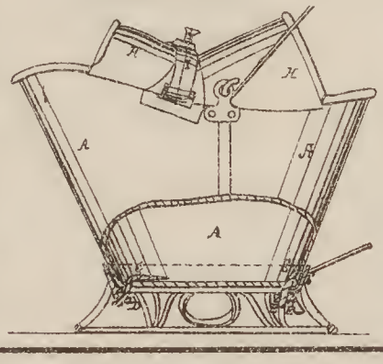
92,544, LOUIS RINGLER.
IRONING-MACHINE.



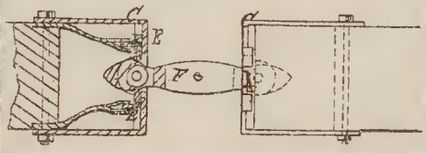
92,545, C. C. ROWELL.
JOHN BELKNAP.
WATCH-MAKERS' LATHE.



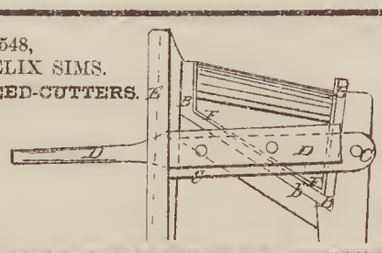
92,546, MORRIS SAULSON.
COAL-SCUTTLE.



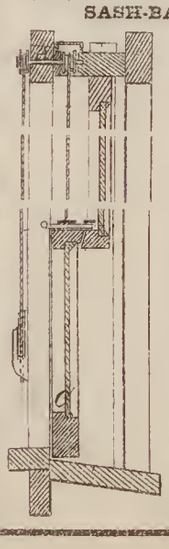
92,547, JOEL E. SIMPSON.
CAR-COUPLING.



92,548,
FELIX SIMS.
FEED-CUTTERS.



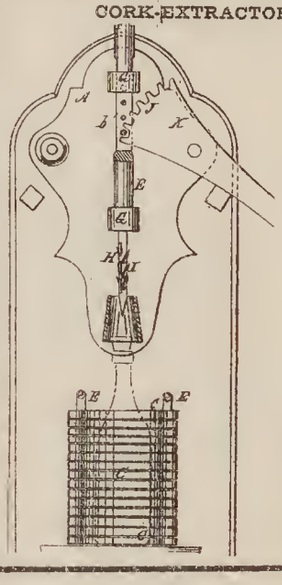
92,549, WILLIAM STANFIELD.
SASH-BALANCE.



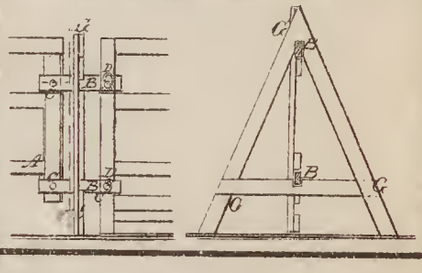
92,550,
W. B. C. STIRLING.
RECORDING-DESK OR TABLE.

92,551, LELAND D. VERMILYA.
WILLIAM S. REYBURN.
EDMOND A. W. HUNTER.
LIGHTNING-RODS.

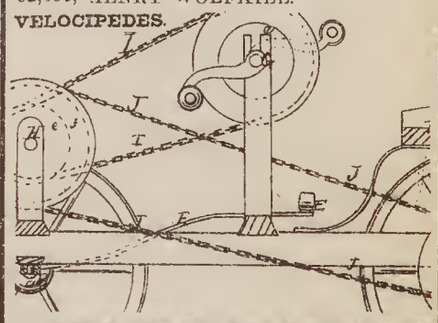
92,552, CHARLES G. WILSON.
CORK-EXTRACTOR.



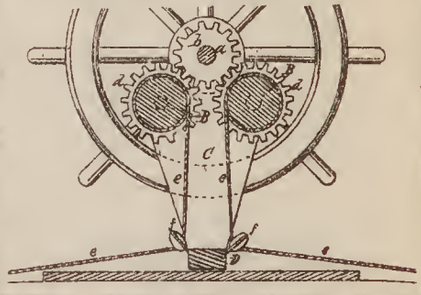
92,553,
WILLIAM WILSON, JR.
PORTABLE FIELD-FENCE.



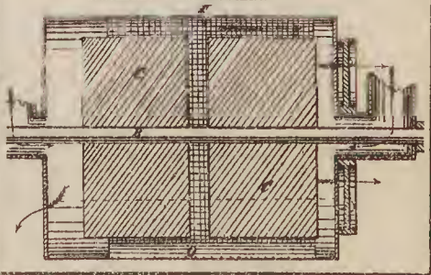
92,554, HENRY WOLFKILL.
VELOCIPEDES.



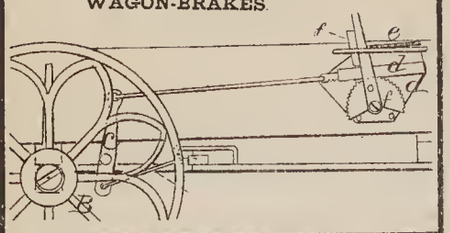
92,555, HENRY YORK.
STEERING-APPARATUS.



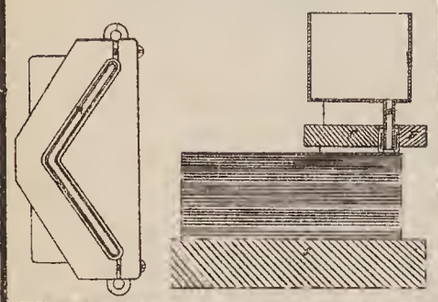
92,556, WILSON AGER.
GRAIN-CLEANER.



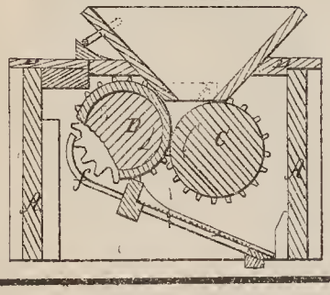
92,557. WM. P. ALCORN.
WAGON-BRAKES.



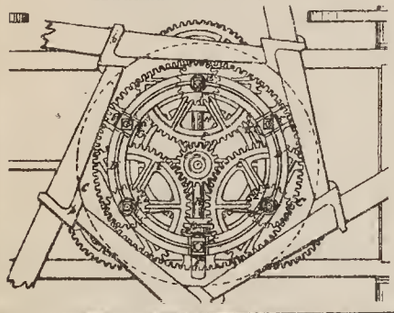
92,558. EDWIN ALLEN.
ENVELOPE-GUMMERS.



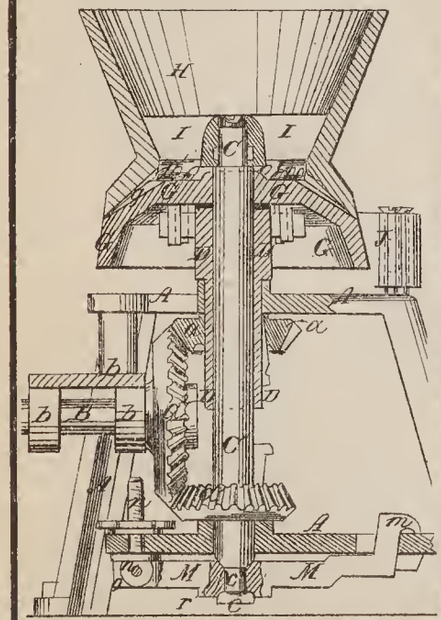
92,559. S. W. ANDREWS.
L. GODFREY.
COCKLE-SEPARATOR.



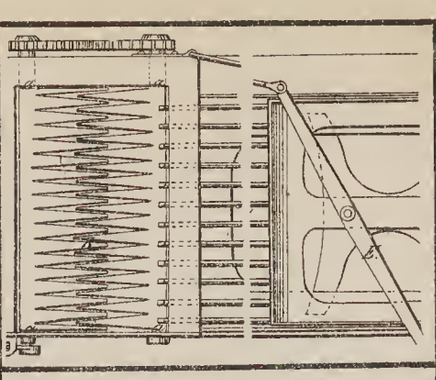
92,560. CORNELIUS AULTMAN.
JOSEPH ALLONAS.
HORSE-POWERS.



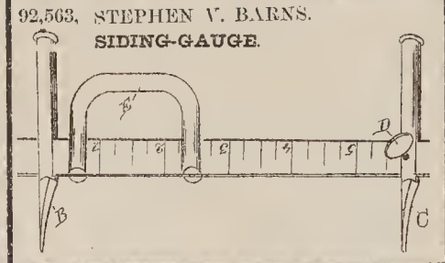
92,561. WILLIAM R. AXE.
PAINT-MILLS.



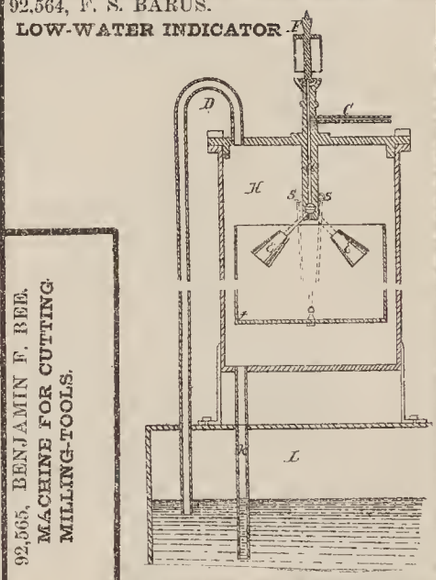
92,562. ISAAC R. BARBOUR.
FURNACE-GRATES.



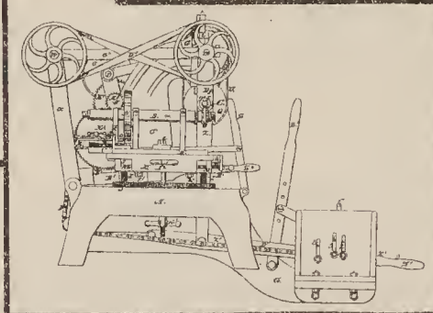
92,563. STEPHEN V. BARNS.
SIDING-GAUGE.



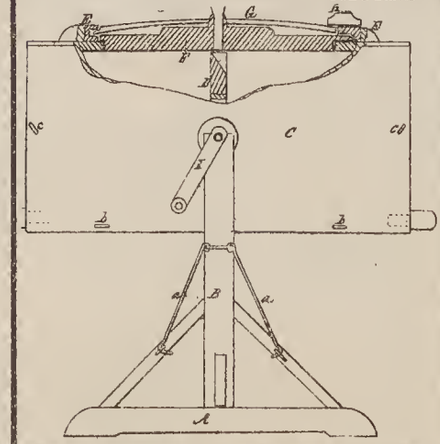
92,564. F. S. BARUS.
LOW-WATER INDICATOR.



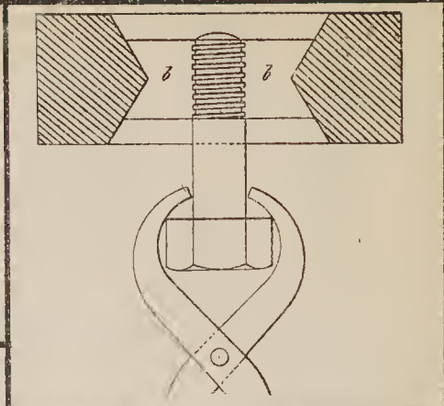
92,565. BENJAMIN F. BEE.
MACHINE FOR CUTTING MILLING-TOOLS.



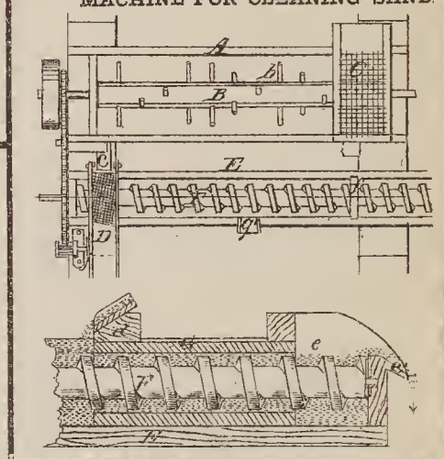
92,566. CHARLES H. BEEMAN.
EDWIN G. BEEMAN. **CHURNS.**



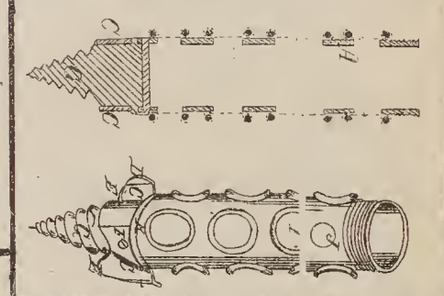
92,567. A. BELAIEFF.
DIES FOR FORMING THREADS ON BOLTS.



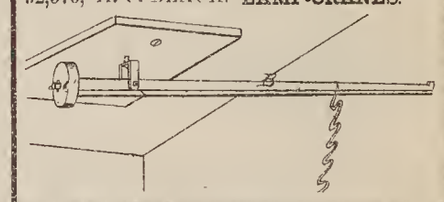
92,568. EDWIN BENNETT.
MACHINE FOR CLEANING SAND.



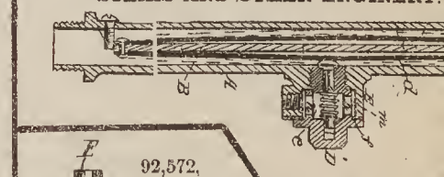
92,569. S. L. BIGNALL. **TUBE-WELLS.**



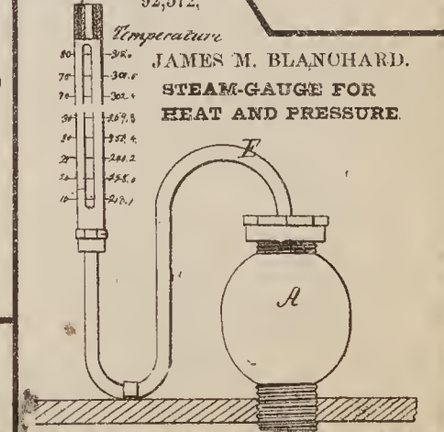
92,570. A. C. BLACK. **LAMP-CRANES.**



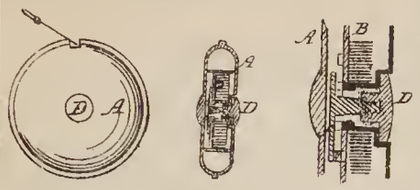
92,571. GEO. W. BLAKE.
STEAM AND OTHER ENGINERY.



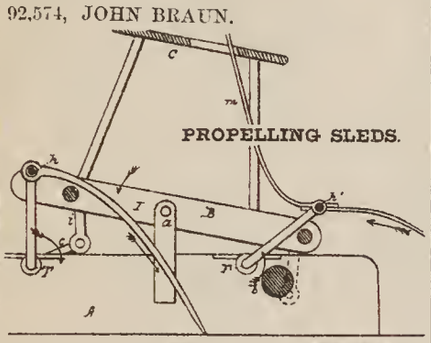
92,572.
JAMES M. BLANCHARD.
STEAM-GAUGE FOR HEAT AND PRESSURE.



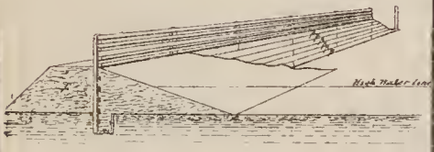
92,573, L. P. BRADLEY.
TAPE-MEASURES.



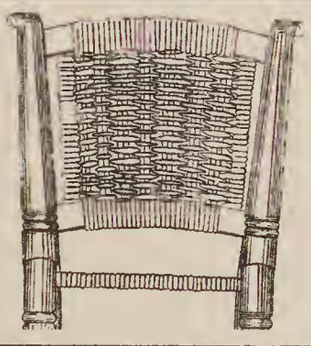
92,574, JOHN BRAUN.
PROPELLING SLEDS.



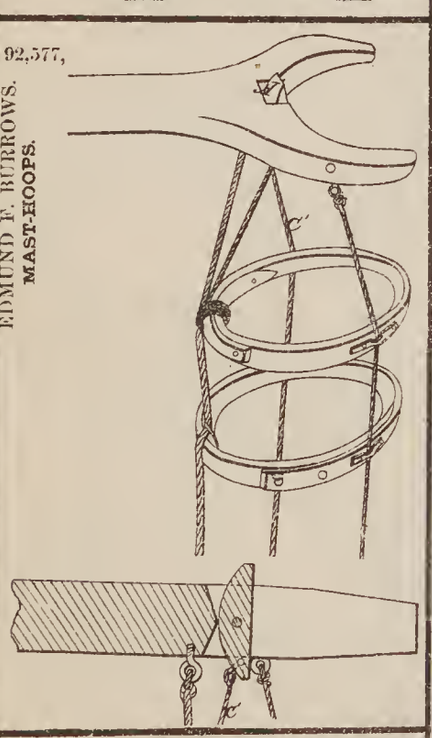
92,575, ALEXANDER G. BRAWNER.
LEVEE.



92,576, PETER BUCKLEY.
CHAIRS.

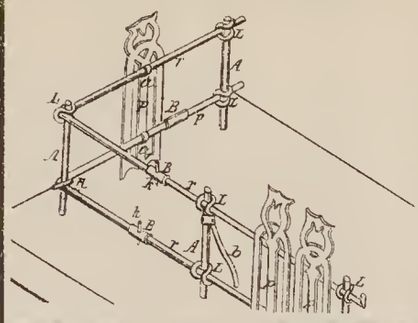


92,577, EDMUND F. BURROWS.
MAST-HOOPS.

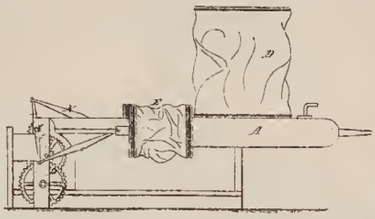


92,578, GEORGE BURSON.
RETARDING THE GROWTH OF STRAWBERRY-VINES.

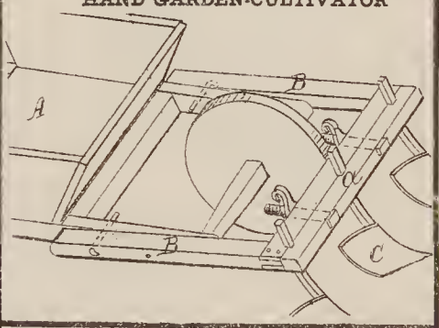
92,579, C. T. BUSH. **IRON FENCE.**



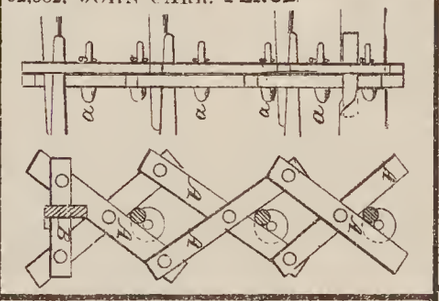
92,580, JOHN S. BUTLER.
ANDREW J. STUCKER.
RECIPROCATING-BELLOWS.



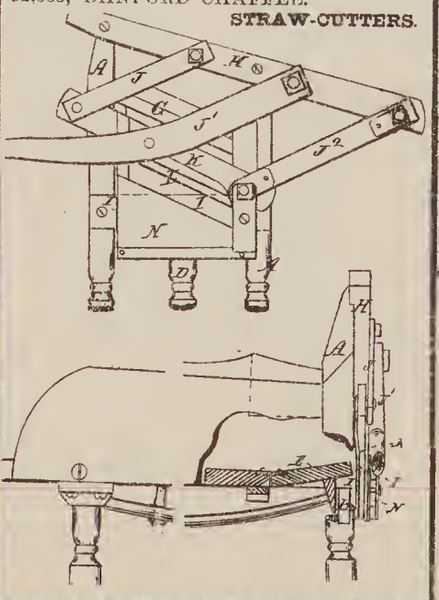
92,581, PHILANDER BYRNS.
HAND GARDEN-CULTIVATOR.



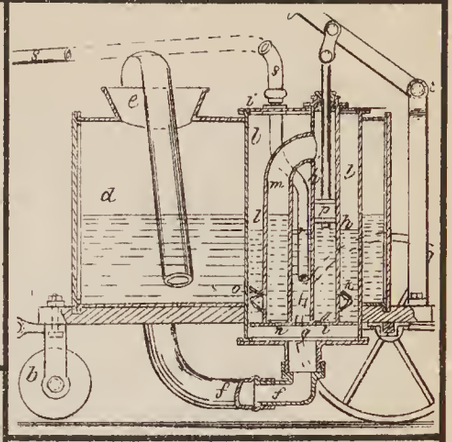
92,582, JOHN CARR. **FENCE.**



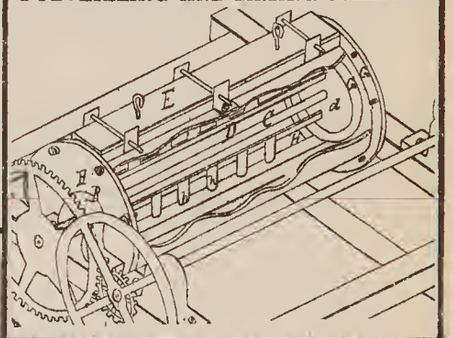
92,583, DANFORD CHAFEE.
STRAW-CUTTERS.



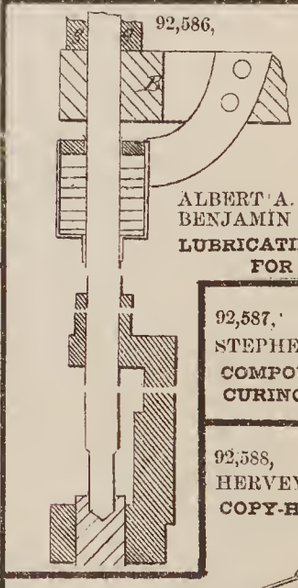
92,584, JULES A. CHERON.
PORTABLE PUMPS.



92,585, WILLIAM COGGESHALL.
JOHN W. STANLEY.
PULVERIZING AND MIXING-CYLINDER.



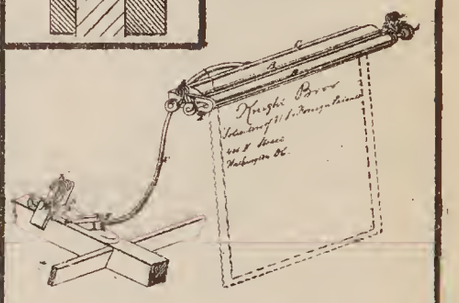
92,586,



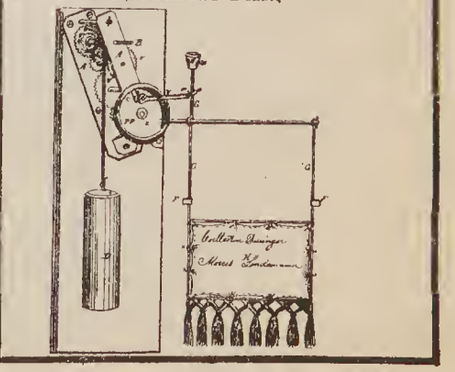
ALBERT A. DAVIS.
BENJAMIN F. WALKER.
LUBRICATING-DEVICE FOR SPINDLES.

92,587,
STEPHEN S. DAVIS.
COMPOUND FOR CURING PILES.

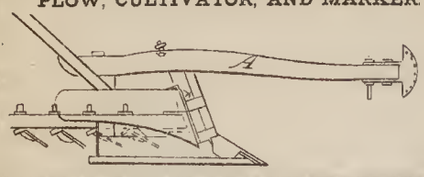
92,588,
HERVEY B. DENNY.
COPY-HOLDERS.



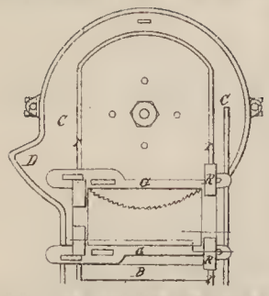
92,589, COELLESTIN DIERINGER.
MORRIS LINDAMANN.
AUTOMATIC FAN.



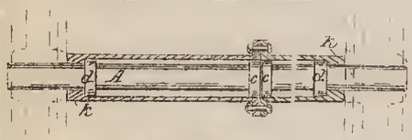
92,590, JOHN DOOLEY COMBINED PLOW, CULTIVATOR, AND MARKER.



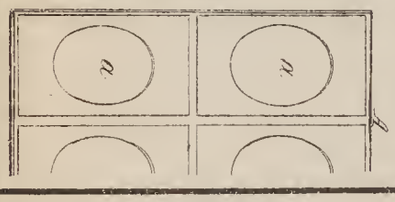
92,591, JOHN B. DOUGHERTY. SHINGLE-MACHINE.



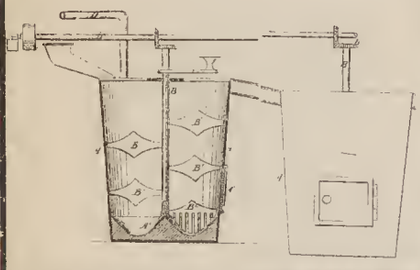
92,592, ROBERT DUTCH. RAILWAY-CAR AXLE.



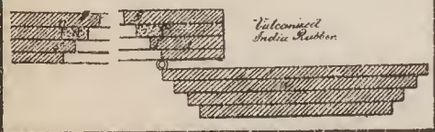
92,593, JOHN EARLE. ALFRED B. STEEL. PRINTING REVENUE-STAMPS, &c., IN TWO OR MORE COLORS.



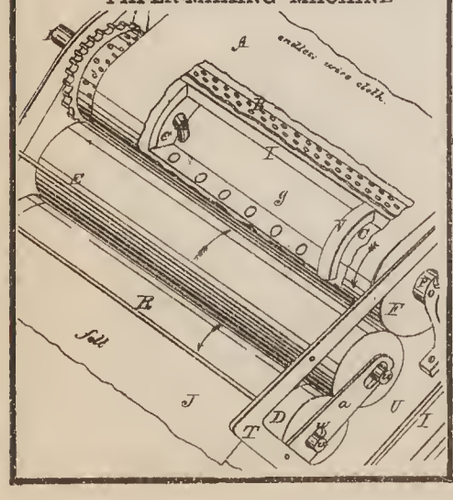
92,594, WM. B. ELTONHEAD. GOLD-WASHING MACHINE.



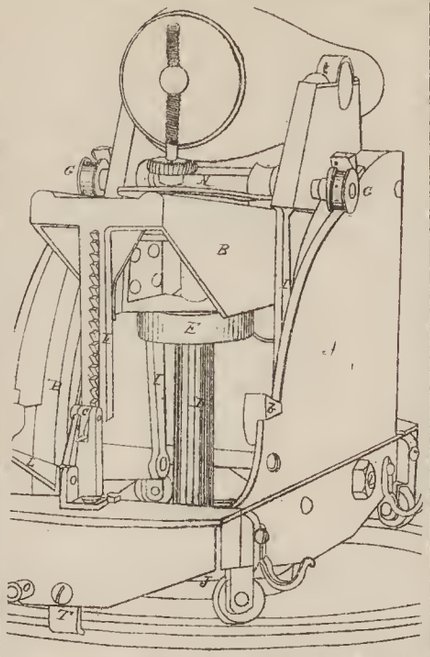
92,595 JOHN FARREL. BURGLAR-PROOF SAFE.



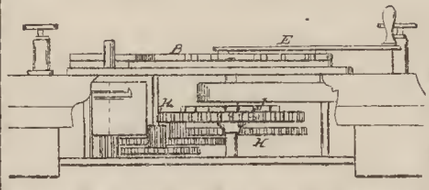
92,596, ELIAS T. FORD. PAPER-MAKING MACHINE.



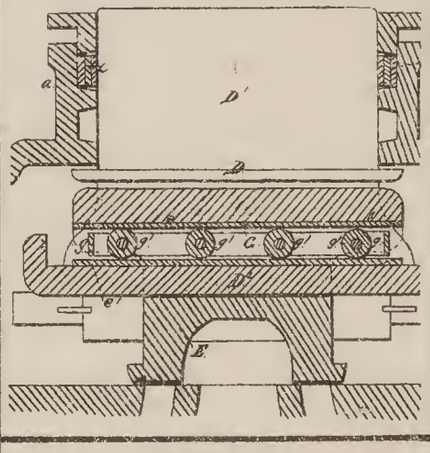
92,597, J. G. FOSTER. COUNTERPOISE GUN-CARRIAGE.



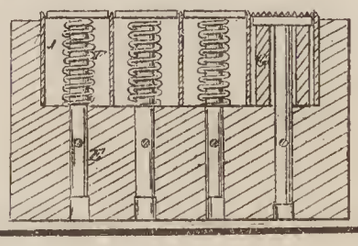
92,598, J. B. FRANZ. TELEGRAPH FIRE-ALARMS.



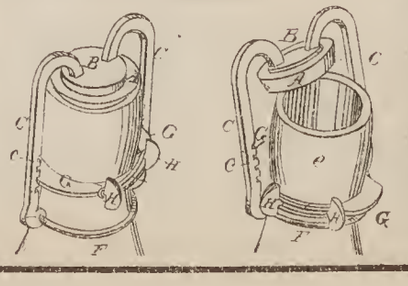
92,599, D. R. FRASER. BALANCE SLIDE-VALVES FOR STEAM-ENGINES.



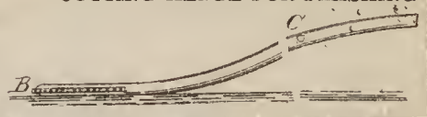
92,600, J. C. GASTON. PAPER-PERFORATORS.



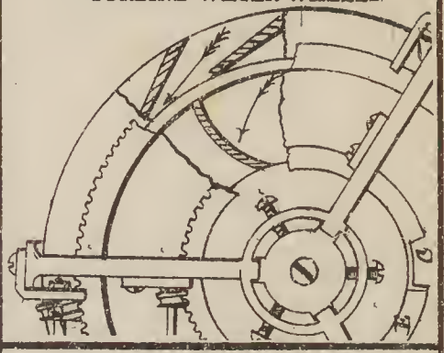
92,601, W. H. GIBBS. BOTTLE-STOPPERS.



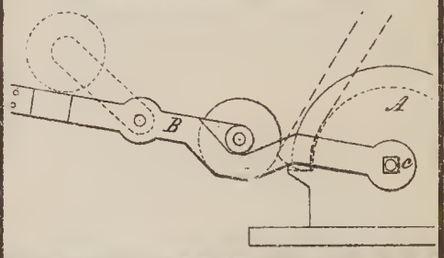
92,602, DAVID GORE. SAWS FOR CUTTING HEDGE FOR FLASHING.



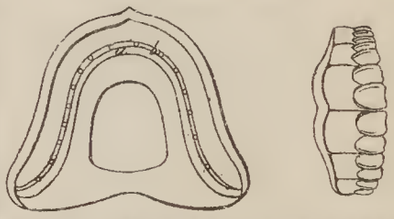
92,603, M. GREGG. TURBINE WATER-WHEELS.



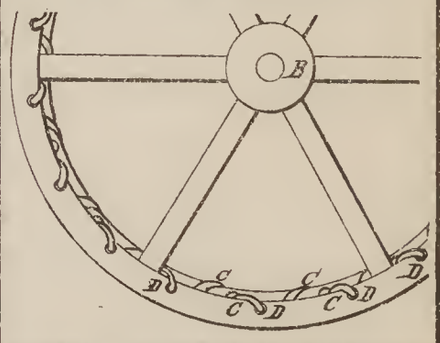
92,604, GEO. V. GRIFFITH. BENDING PLOW-HANDLES.



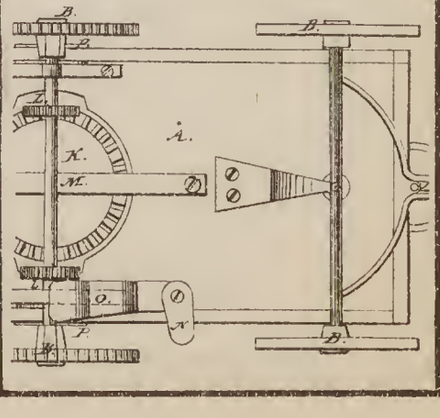
92,605, EDW. HALE. ATTACHING ARTIFICIAL TEETH TO THEIR BASE-PLATES.



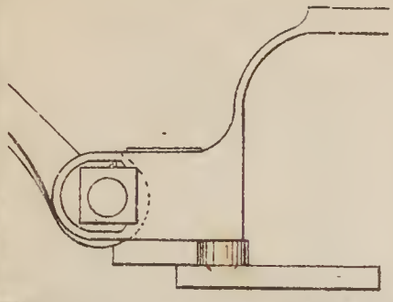
92,606, DANIEL HAM. ATTACHING RUBBER TIRES TO CARRIAGE-WHEELS.



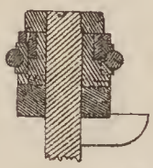
92,607, THOMAS U. HAMILTON. HENDRICK H. HAMILTON. PROPELLING CARRIAGES.



92,608, E. A. HARVEY.
THILL-COUPLING.

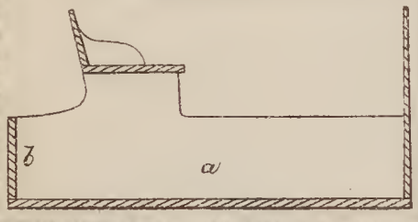


92,609, JAMES HATCH.
VARIETY MOULDING-MACHINE.

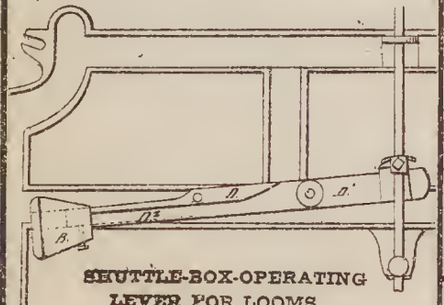


92,610, A. G. HUTCHINSON.
BURGLAR-ALARM.

92,611, J. W. JARBOE.
COMPOSITION WAGON-BODY.

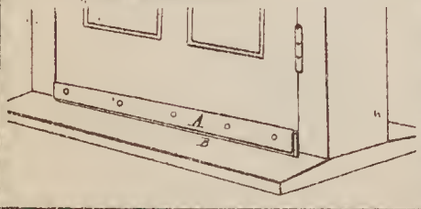


92,612, BARTON H. JENKS.

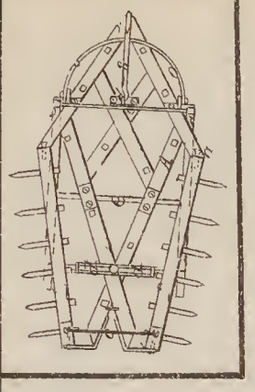


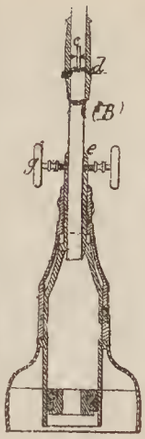
SHUTTLE-BOX-OPERATING LEVER FOR LOOMS.

92,613, CHAS. A. JUDD.
WEATHER-STRIP.



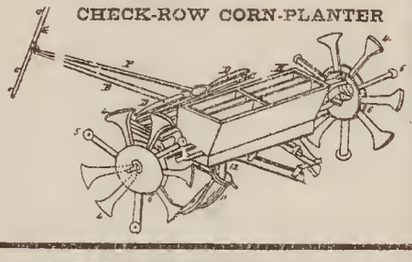
92,614, N. KANE.
ALBERT KANE. **HARROWS.**



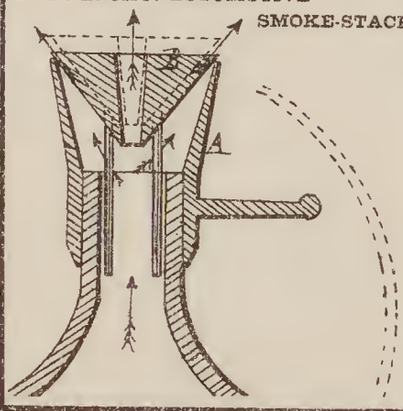


92,615,
JOHN E. KAUFFELT.
ATMOSPHERIC TANNING-APPARATUS.

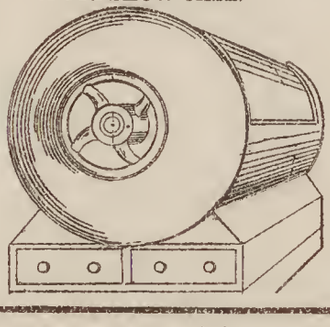
92,616, JOHN L. KREIDER.
AUTOMATIC CHECK-ROW CORN-PLANTER



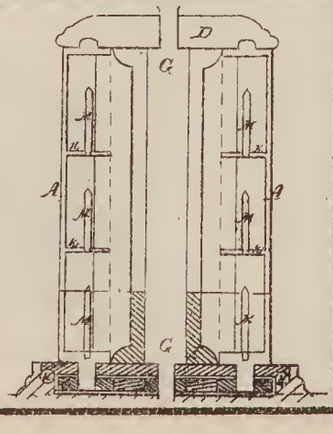
92,617, **EXHAUST-DEVICE FOR**
R. H. LECKY. **LOCOMOTIVE SMOKE-STACKS.**



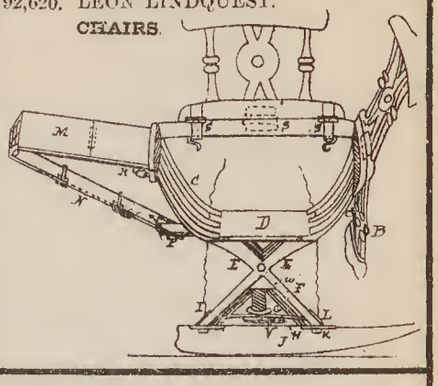
92,618, J. N. LEONARD.
SPOOL-SHOW-CASE.



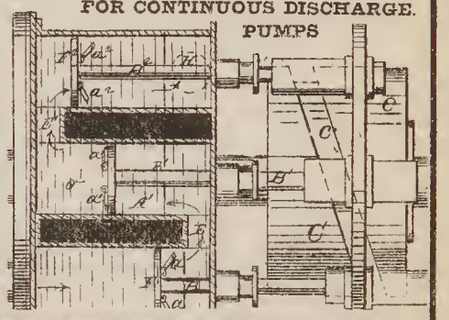
92,619, J. N. LEONARD.
DISPLAYING SPOOLS OF SILK, COTTON.



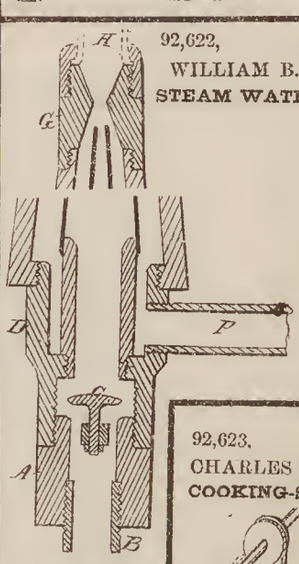
92,620. LEON LINDQUEST.
CHAIRS.



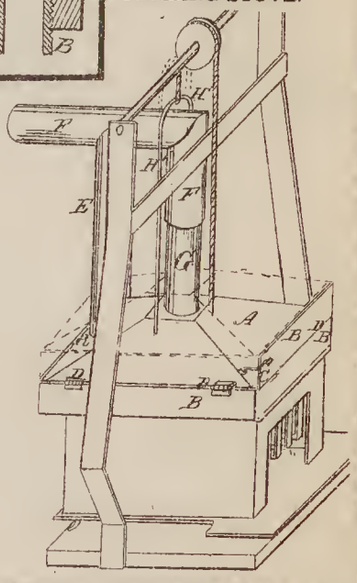
92,621, SAML. D. LOUNT.
FOR CONTINUOUS DISCHARGE. PUMPS



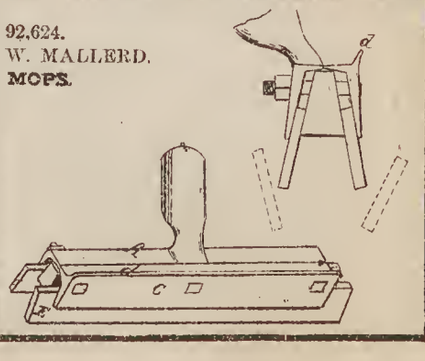
92,622,
WILLIAM B. MACK.
STEAM WATER-HEATERS



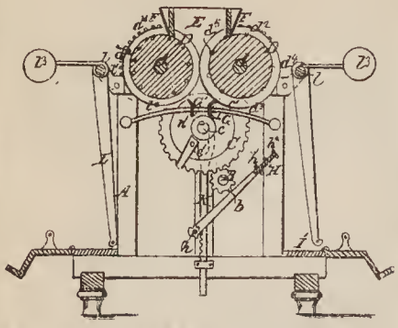
92,623,
CHARLES MAGUIRE.
COOKING-STOVE.



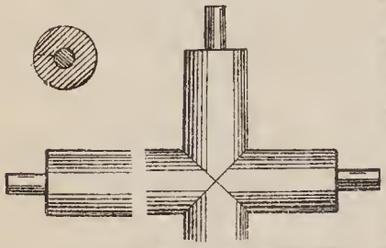
92,624.
W. MALLERD.
MOPS.



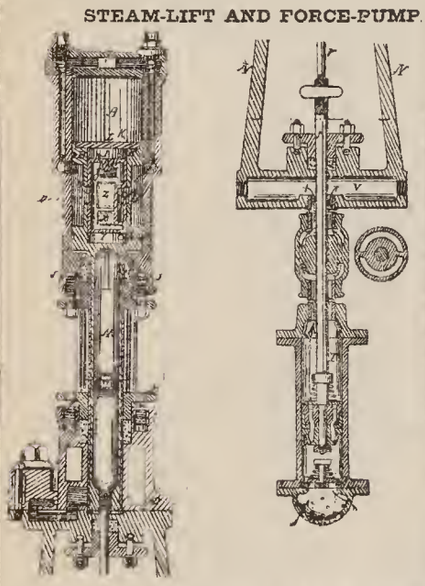
92,625. JOHN F. MALLINCKRODT.
BRICK-MACHINE.



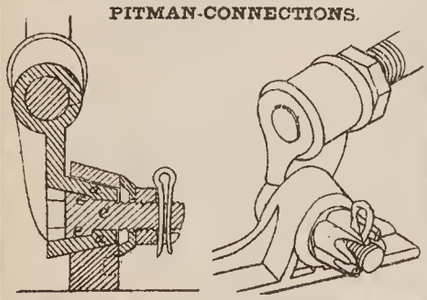
92,626, JEREMIAH A. MARDEN.
PRISON-BARS.



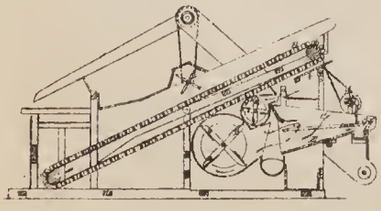
92,627, JAMES R. MAXWELL.
EZRA COPE.
STEAM-LIFT AND FORCE-PUMP.



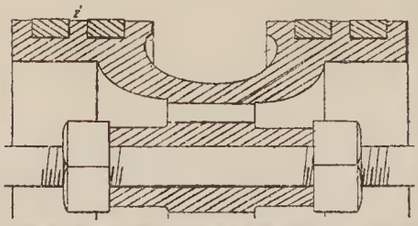
92,628, W. K. MILLER.
PITMAN-CONNECTIONS.



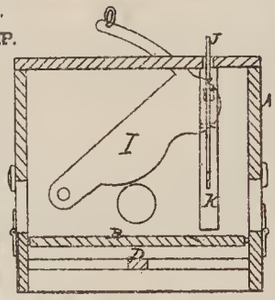
92,629, W. K. MILLER
GRAIN-SEPARATOR.



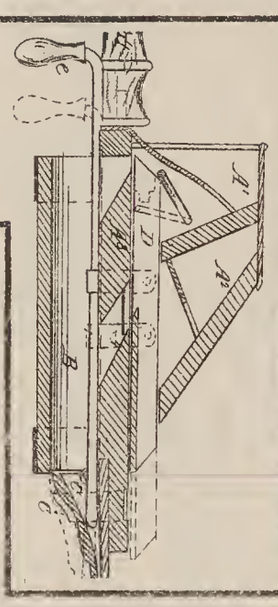
92,630, J. G. MILLHOLLAND.
BALANCED CYLINDRICAL SLIDE-VALVE.



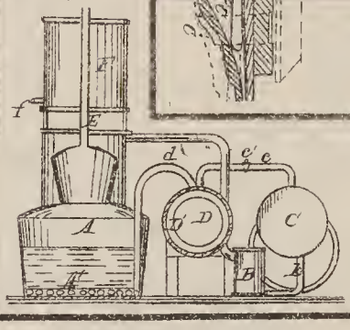
LEVI MOORE.
ANIMAL-TRAP.
92,631,



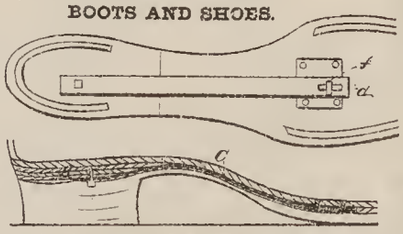
92,632, ALBERT MORE.
HAND SEED-PLANTER.



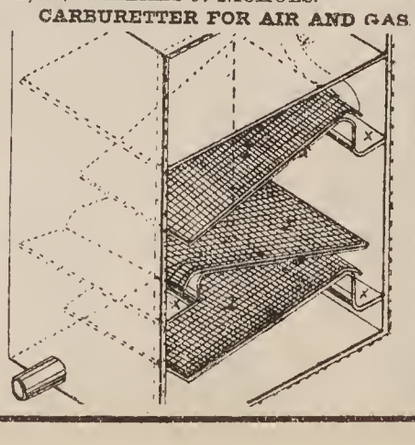
92,633, EDMUND L. MORSE.
AGEING SPIRITS.



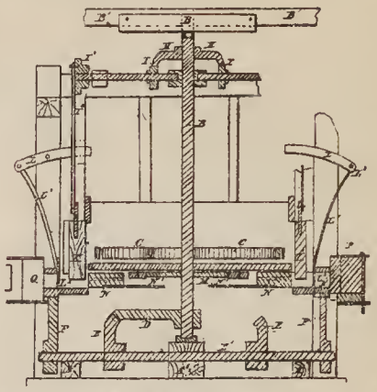
92,634, WALTER MURRAY.
BOOTS AND SHOES.



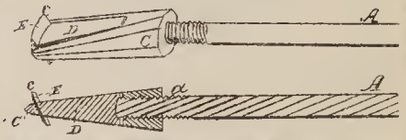
92,635, WILLIAM J. NICHOLS.
CARBURETTER FOR AIR AND GAS.



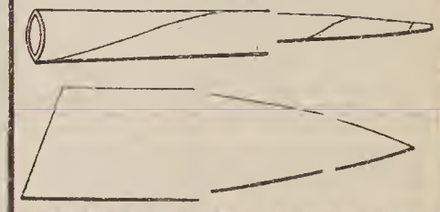
92,636.
WALKER OLDS.
BRICK-MACHINE.



92,637, FRANK OSBORNE.
INSTRUMENT FOR CUTTING PEGS FROM BOOTS.



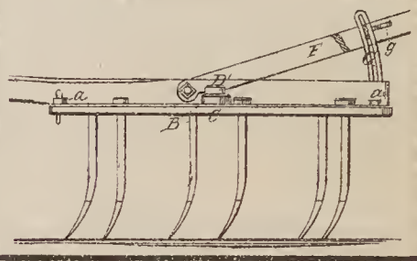
92,638, NATHL. OTIS.
LIGHTNING-RODS.



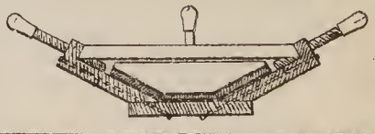
92,639, WM. S. PADDOCK.
ELASTIC TIP FOR FURNITURE.

92,640, C. C. PARSONS.
PROCESS OF PURIFYING ALCOHOL AND OTHER SPIRITS.

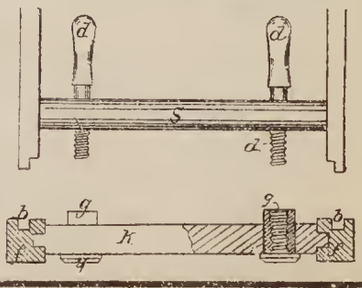
92,641, R. F. PATTON.
CORN AND COTTON-CULTIVATORS.



92,642, OLIVER L. PAYNE. **CLAMPS.**

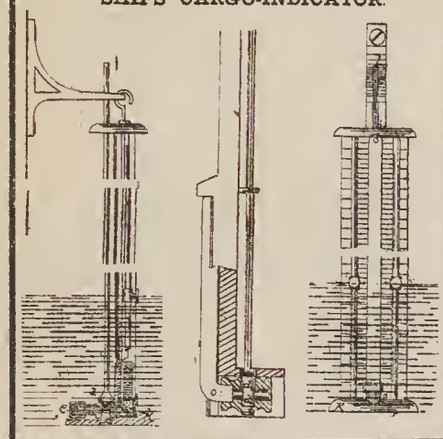


92,643, J. E. PENCILLE. **BEDSTEAD.**

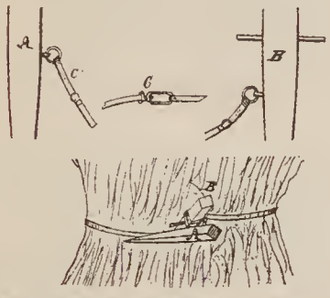


92,644, NOAH POMEROY.
DEAD-BEAT VERGE FOR CLOCKS.

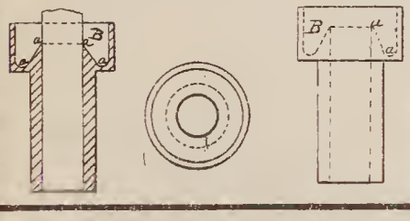
92,645, WM. OSCAR REIM.
SHIPS' CARGO-INDICATOR.



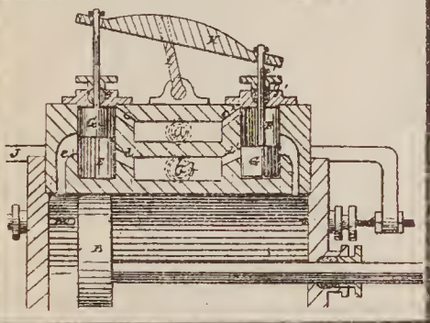
92,646, WOODSON RICE. **SHOCK-TIER.**



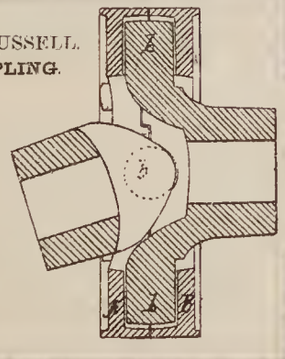
92,647, ISAAC P. RICHARDS.
SPINDLE-BOLSTERS.



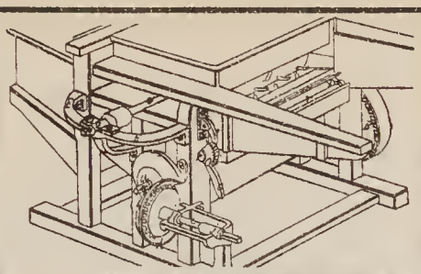
92,648, JOHN B. ROOT.
DIRECT-ACTING ENGINE VALVE GEAR.



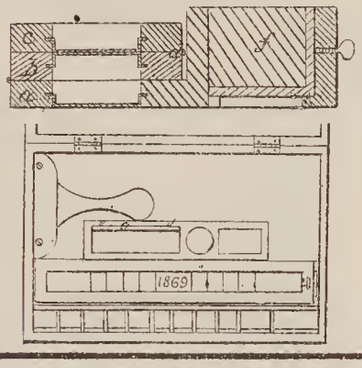
92,649,
CLEMENT RUSSELL.
SHAFT-COUPLING.



92,650, CLEMENT RUSSELL.
THOS. H. RUSSELL.
W. K. MILLER.
THRESHING-MACHINES.



92,651, GEORGE SANGER
GERMAN ERASIVE SOAP.



92,652, GEORGE SANGER.
CHEMICAL OLIVE-SOAP.

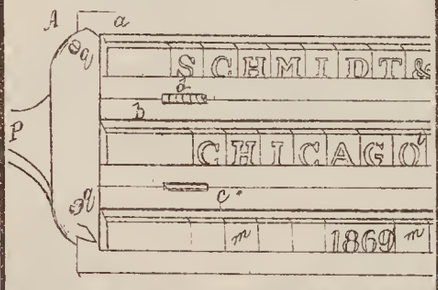
92,653, GEORGE SANGER. **COMBINED SCOURING AND FULLING-SOAP.**

92,654, GEORGE SANGER.
DETERSIVE SOAP.

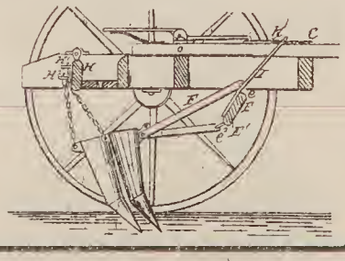
92,655, GEORGE SANGER.
"FULLING-SOAP."

92,656, GEORGE SANGER.
REFINING TALLOW.

92,657, LEONHARD SCHMIDT.
FRED. E. HELD.
STENCILLING-APPARATUS.



92,658, PETER J. SCHMITT.
GRAIN-DRILLS.



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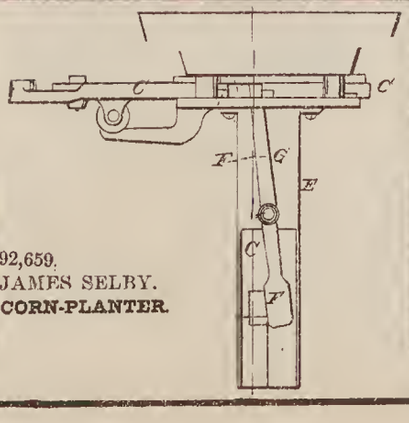
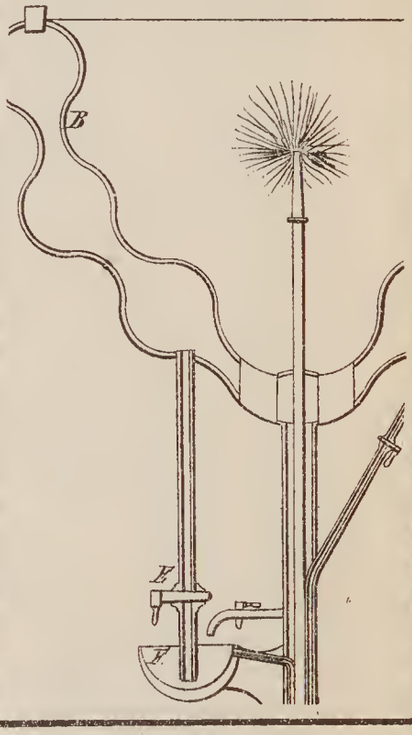
JAMES SELBY.
CORN-PLANTER.



92,660, W. G. SEMPLE.
COOKING-STOVE.

92,661, JOHN W. SHEHAN. **LAMPS.**



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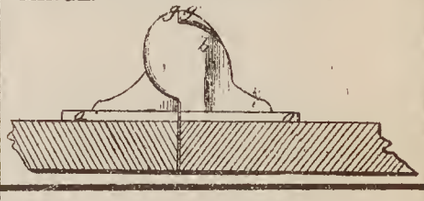

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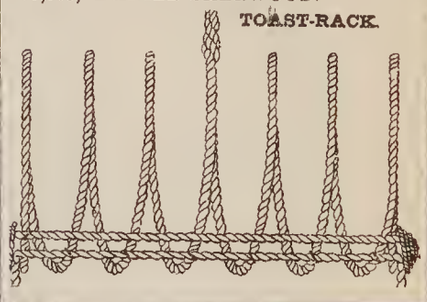
TOAST-RACK.



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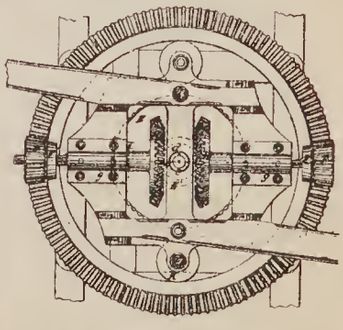
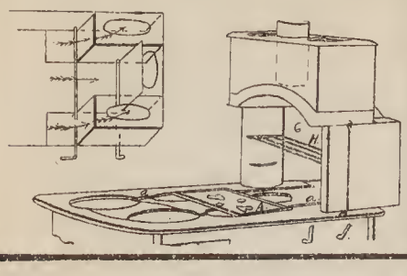


92,665, ELIHU SMITH. **COOKING-STOVE.**



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ARTIFICIAL HONEY

92,667. DAVID STEWART.
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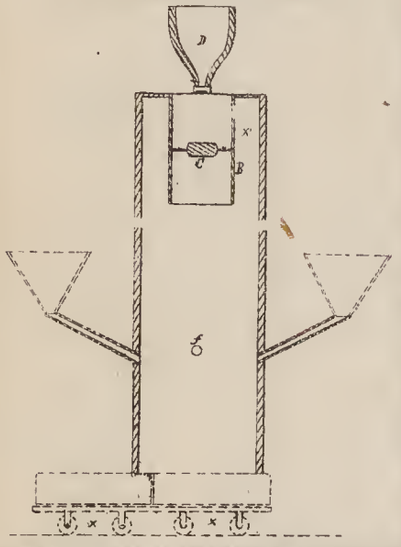

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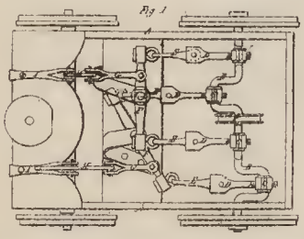

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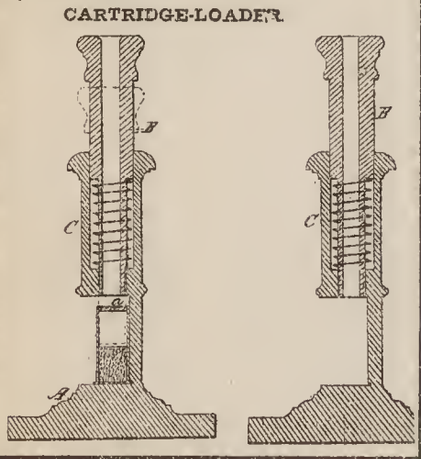

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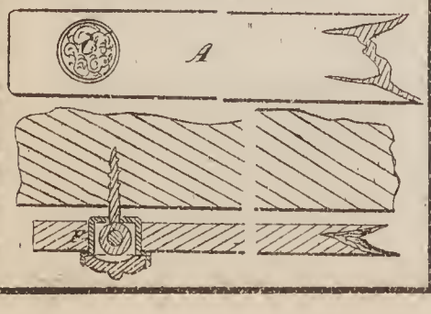

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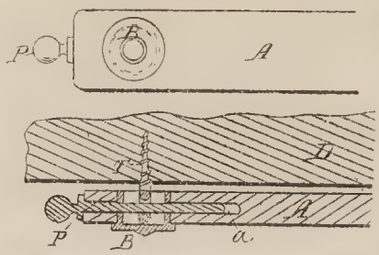

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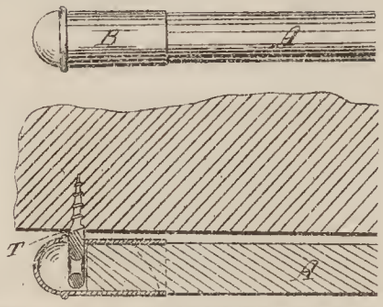

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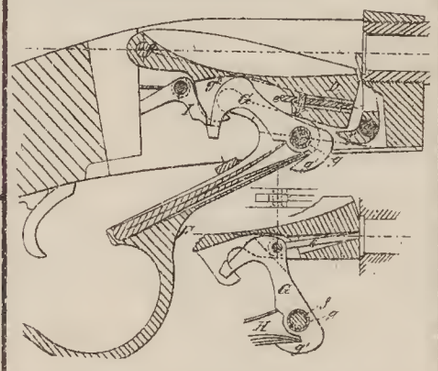

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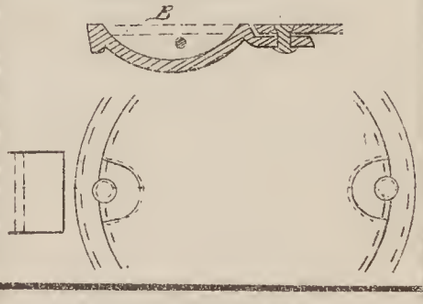

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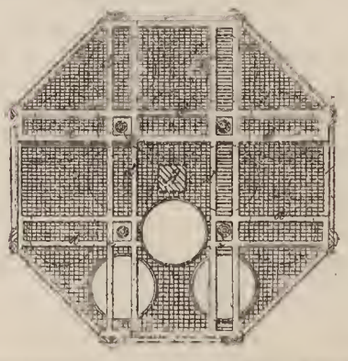

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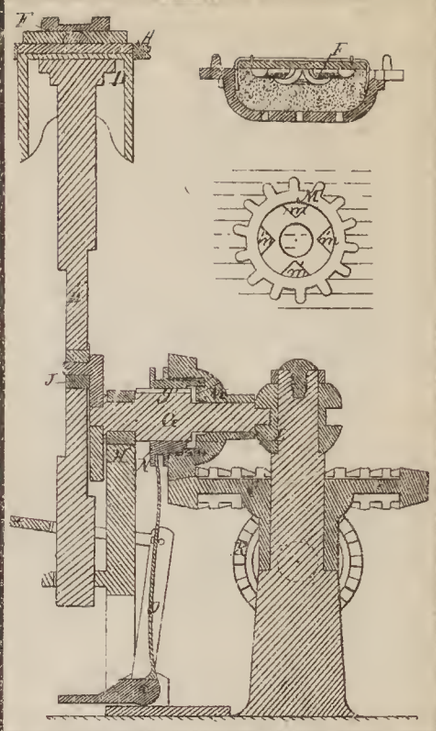
REPAIRING PLUMBAGO CRUCIBLES USED IN MELTING STEEL.

92,677. ADAM WEABER.
MOULDS FOR METAL CASTINGS.



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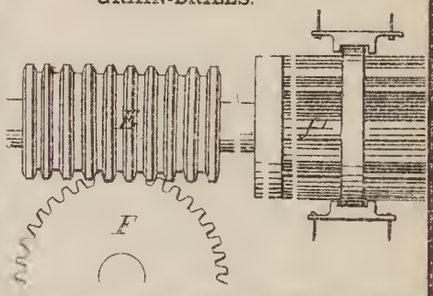
GRAIN-DRILLS.



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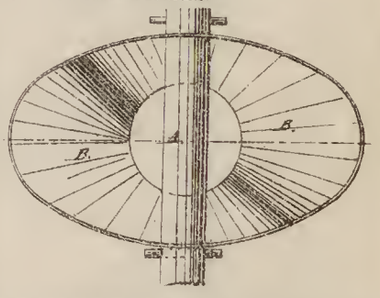

92,680. WILLIAM WEUSTHOFF.
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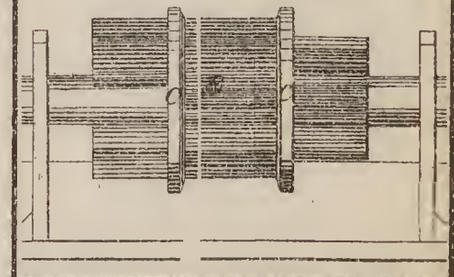
SEED-WHEELS FOR GRAIN-DRILLS.



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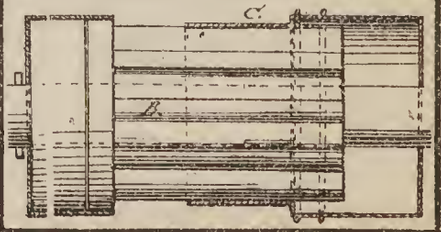

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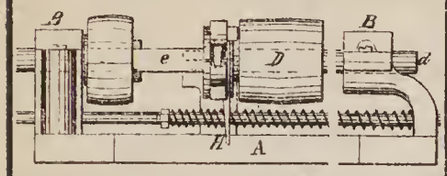

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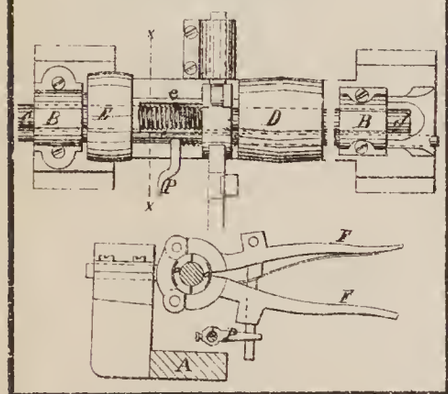
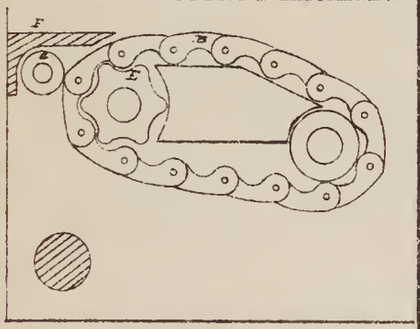


92,683. JESSE WINWARD.
GLUE FROM THE PITH OF HORNS

92,684, M. WINTER.
TOBACCO-CUTTING MACHINES.



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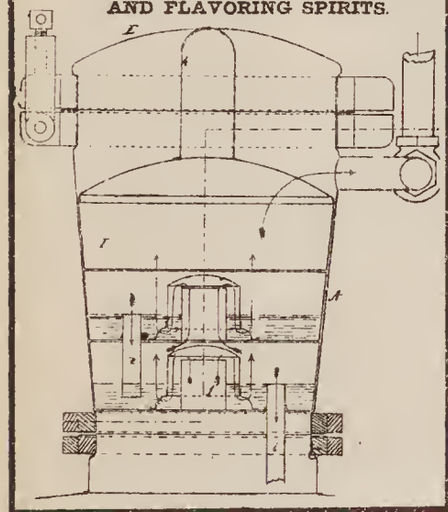

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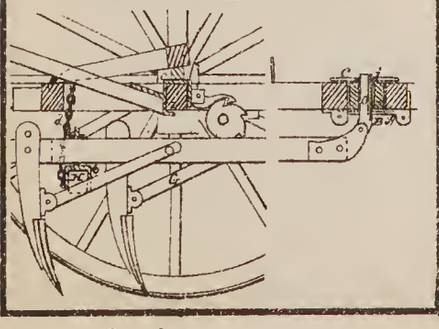
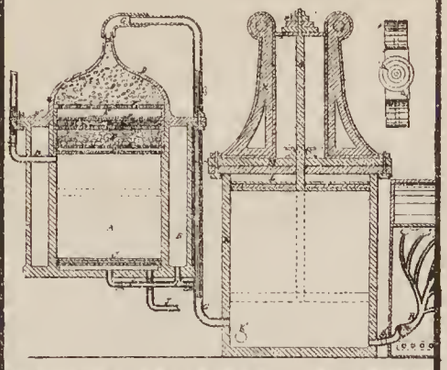


92,687 RODNEY M. WHIPPLE and AUG. P. AMBLER. PETROLEUM-GAS APP'S.



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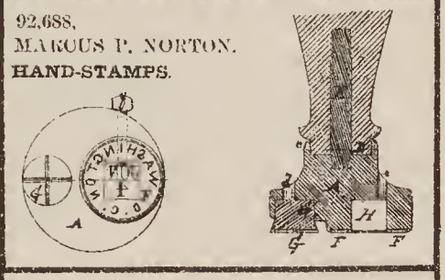

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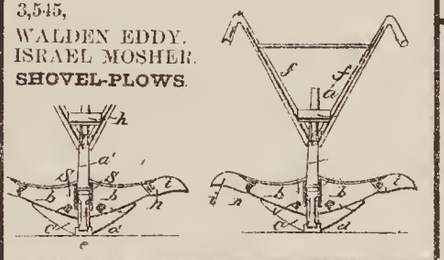
ISRAEL MOSHER.
SHOVEL-PLOWS.



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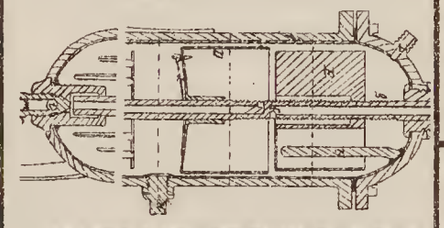
GENERATING CARBONIC ACID.



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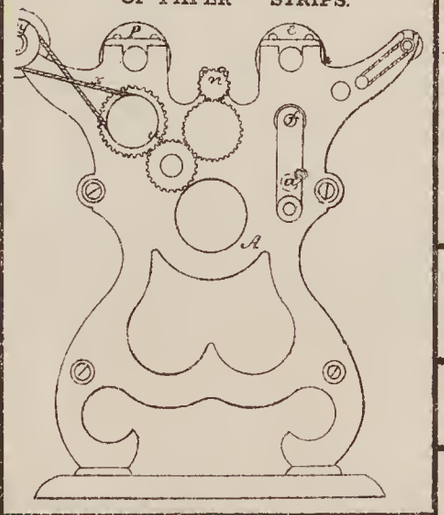
FOLDING AND CORDING THE EDGE OF PAPER STRIPS.



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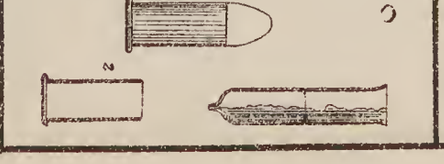
METALLIC CARTRIDGE-CASE.



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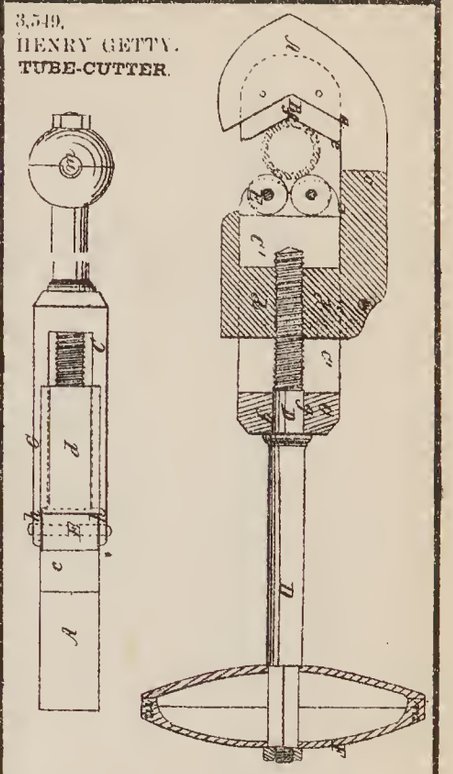
TUBE-CUTTER.



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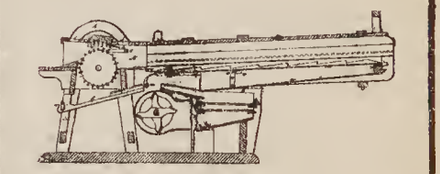
MINARD HARDER.
THRESHING-MACHINES.



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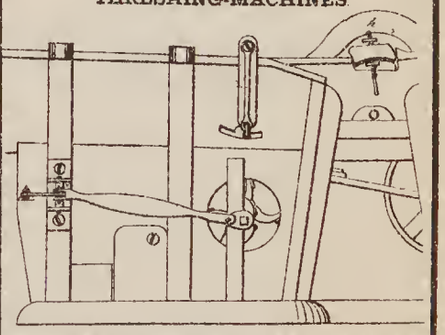
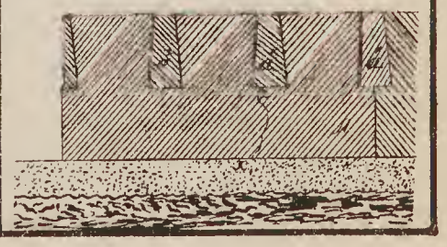


3,552, WILLIAM E. LOCKWOOD.
COMPOUND FABRICS FOR THE PRODUCTION OF SHIRT-COLLARS.

3,553, DAVID STEWART.
MANUFACTURE OF IRON.

3,554. C. WILLIAMS.
WOODEN PAVEMENT.



ILLUSTRATIONS OF PATENTS

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JULY 20, 1869.

92,689, DANIEL W. ATHERTON.
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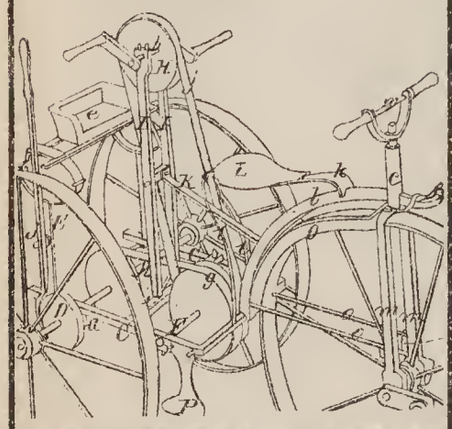

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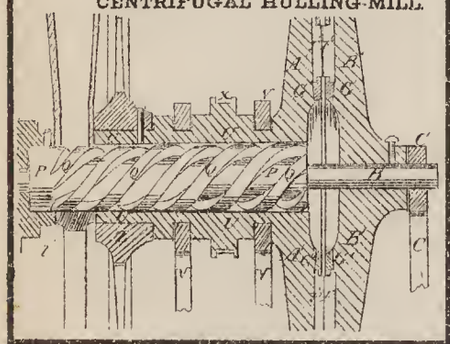

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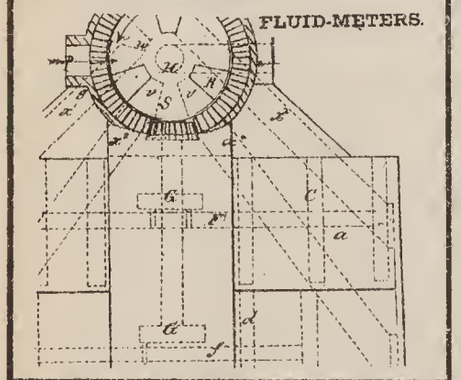

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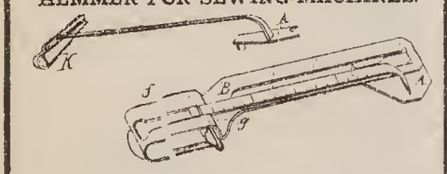

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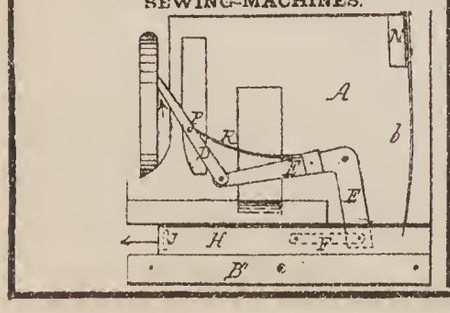

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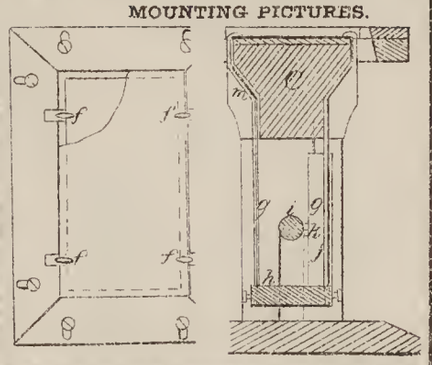

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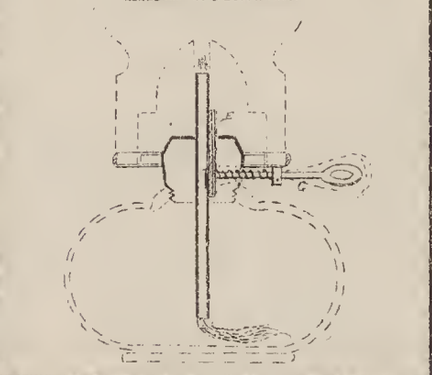
LAMP-BURNERS.



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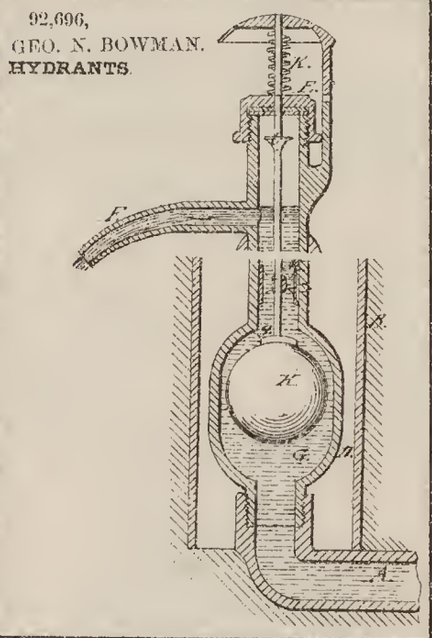
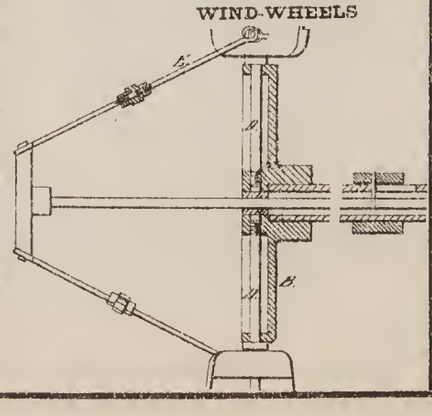
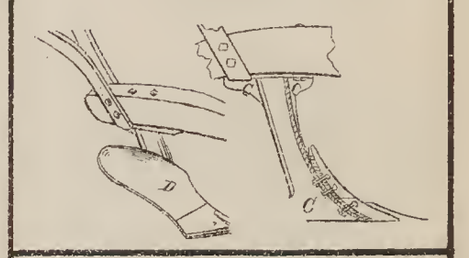


92,697 HENRY C. BRIGGS.
WIND-WHEELS

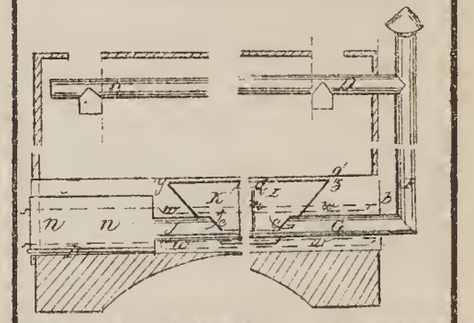


92,698, T. E. C. BRINLY
PLOWS.

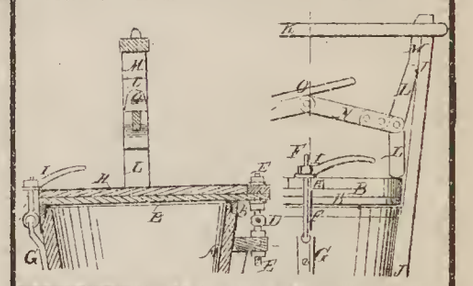


92,699, AUSTIN BURT.
COMPOSITION-CORE OR FORM FOR MAKING CASTINGS.

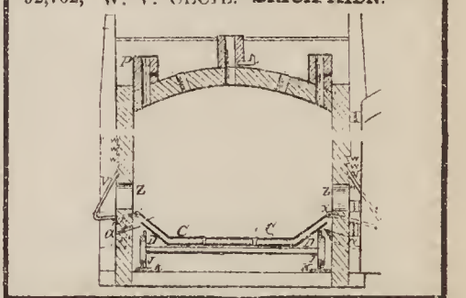
92,700, THOMAS B. CARROLL.
FRUIT AND CLOTHES-DRIER.



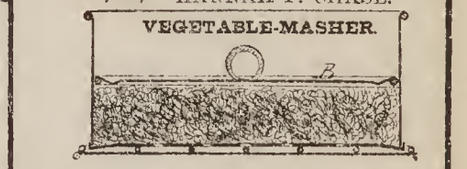
92,701, EZRA CASWELL. **TUB.**



92,702, W. V. CECIL. **BRICK-KILN.**

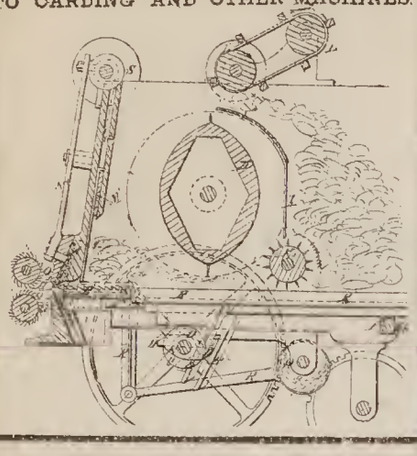


92,703, HANNAH F. CHASE.
VEGETABLE-MASHER.

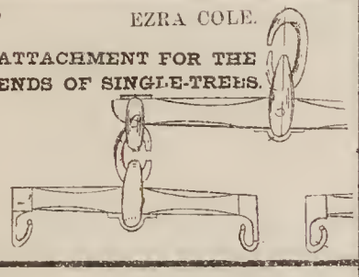


92,704, EDWARD S. CHENEY.
GEO. P. PERRY.
ENAMELLED HATS.

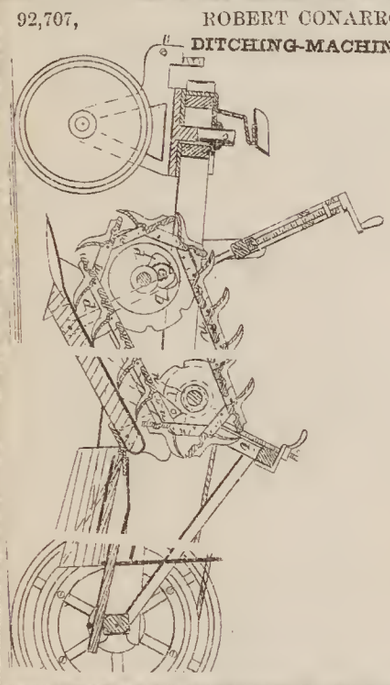
92,705, WILLIAM CLISSOLD.
MACHINE FOR FEEDING WOOL, &c., TO CARDING AND OTHER MACHINES.



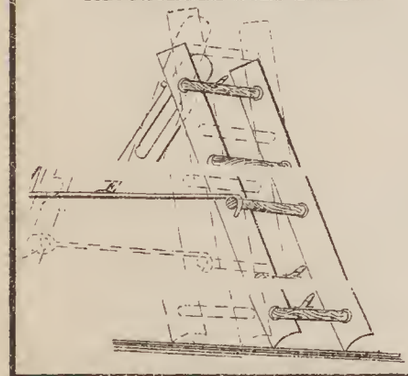
92,706, EZRA COLE.
ATTACHMENT FOR THE ENDS OF SINGLE-TREES.



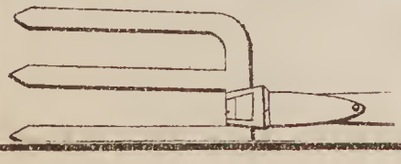
92,707, ROBERT CONARROE.
DITCHING-MACHINES.



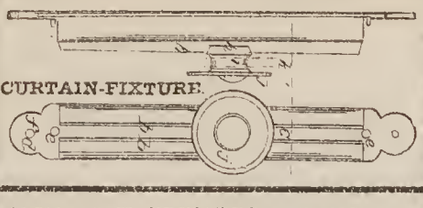
92,708, ROBERT R. CROASDALE. PETER RINK.
ADJUSTABLE STEP-LADDER.



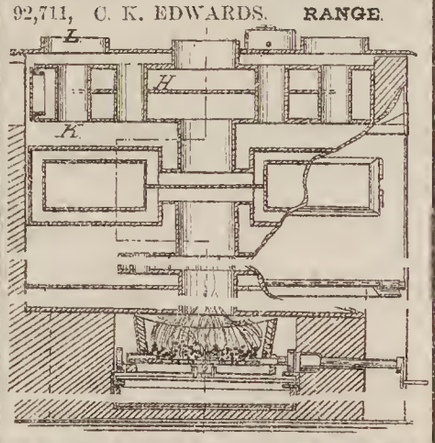
92,709, GEORGE K. BABCOCK. ELON C. DENIO. CONSTRUCTION OF SPADING AND OTHER FORKS.



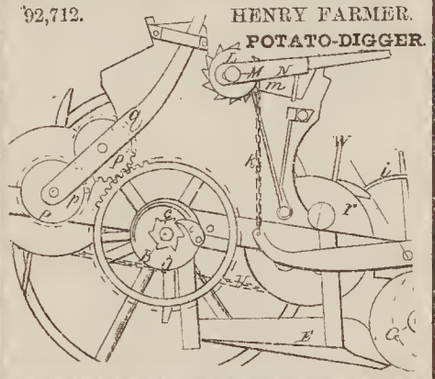
92,710, JOHN DOYLE.
CURTAIN-FIXTURE.



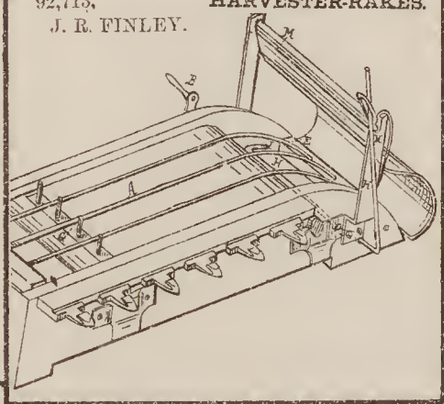
92,711, C. K. EDWARDS. RANGE.



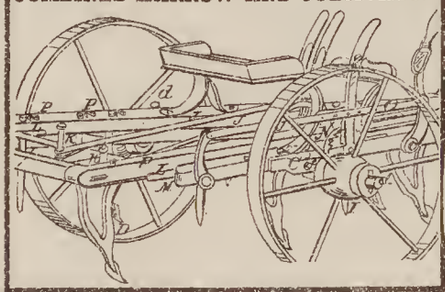
92,712. HENRY FARMER.
POTATO-DIGGER.



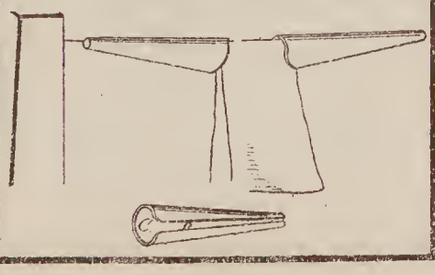
92,713, J. R. FINLEY. HARVESTER-RAKES.



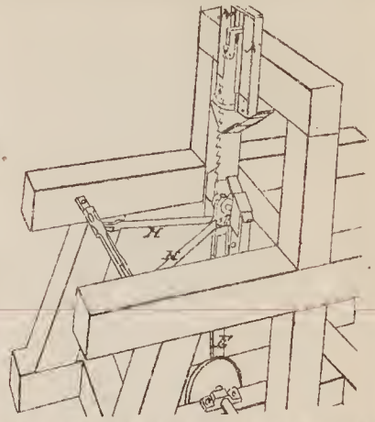
92,714, WM. J. FUNK.
COMBINED HARROW AND CULTIVATOR.



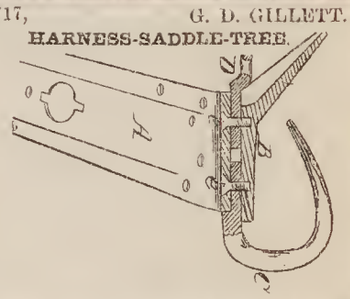
92,715, PETER GARDNER.
CLOTHES-PIN OR CLAMP.



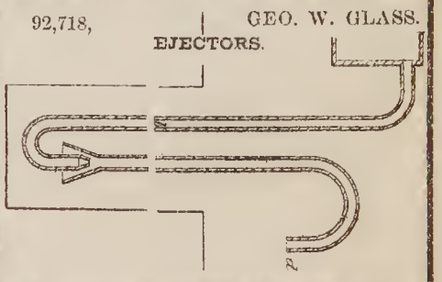
92,716, JAMES GARGETT.
METHOD OF HANGING RECIPROCATING SAWS.



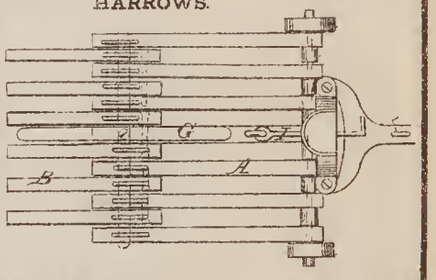
92,717, G. D. GILLETT.
HARNESS-SADDLE-TREE.



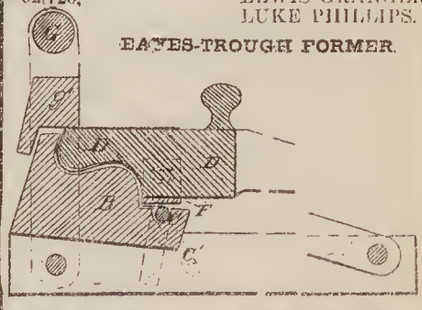
92,718, GEO. W. GLASS.
EJECTORS.



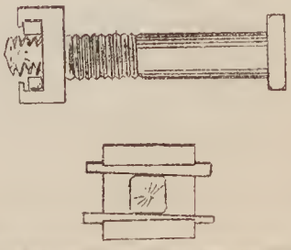
92,719, E. A. GOODES.
HARROWS.



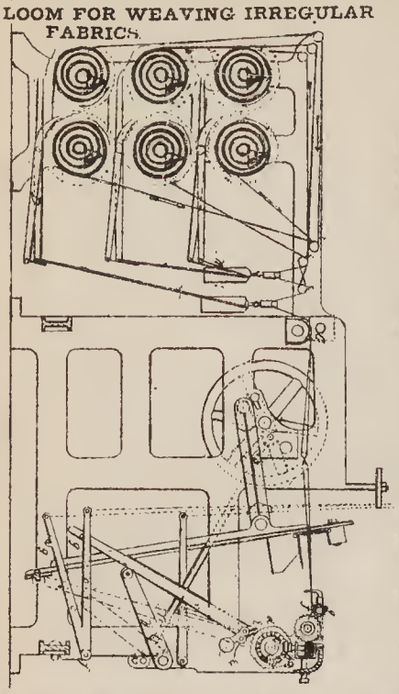
92,720, LEWIS GRANGER. LUKE PHILLIPS.
EAVES-TROUGH FORMER.



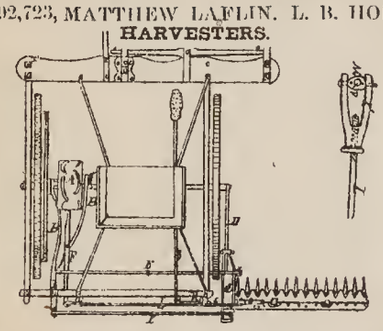
92,721, THOMAS HAGAN.
LOCK-NUTS.



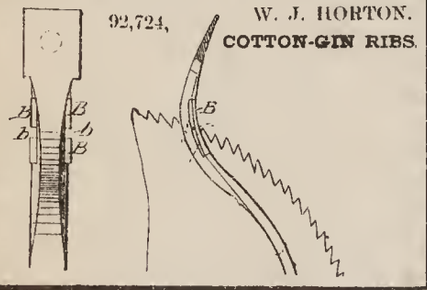
92,722, CHARLES HEPTONSTALL.
LOOM FOR WEAVING IRREGULAR FABRICS.



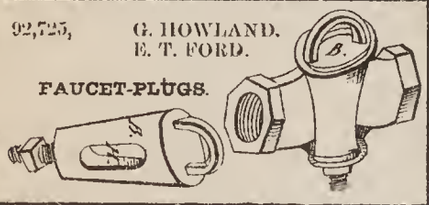
92,723, MATTHEW LAFLIN. L. B. HOIT.
HARVESTERS.



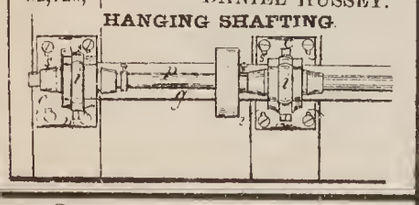
92,724, W. J. HORTON.
COTTON-GIN RIBS.



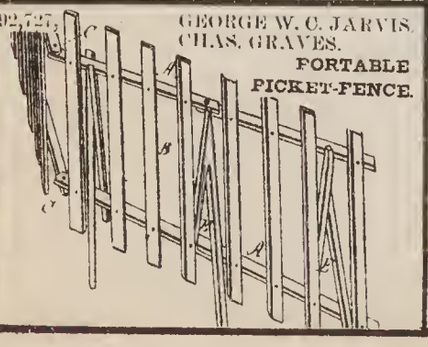
92,725, G. HOWLAND.
E. T. FORD.
FAUCET-PLUGS.



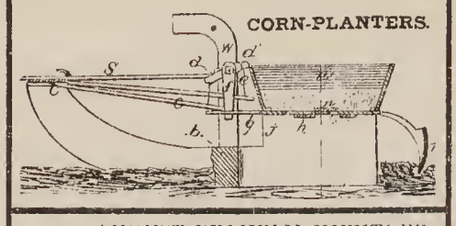
92,726, DANIEL HUSSEY.
HANGING SHAFTING.



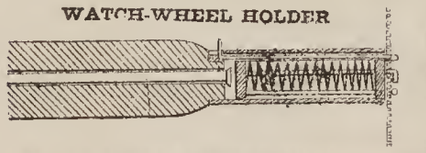
92,727, GEORGE W. C. JARVIS.
CHAS. GRAVES.
PORTABLE PICKET-FENCE.



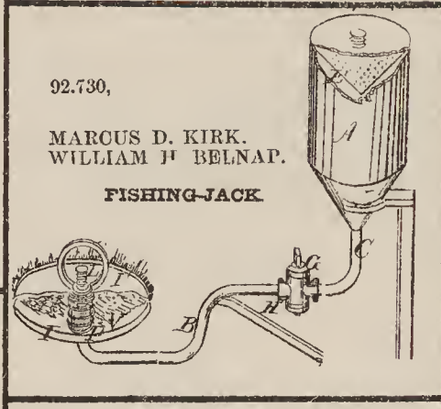
92,728, JOHN B. JOHNSON
CORN-PLANTERS.



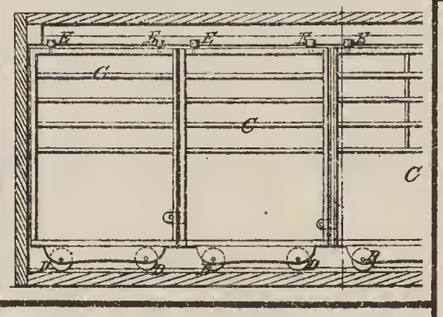
92,729. AUGUST WILHELM KIENTOFF.
WATCH-WHEEL HOLDER



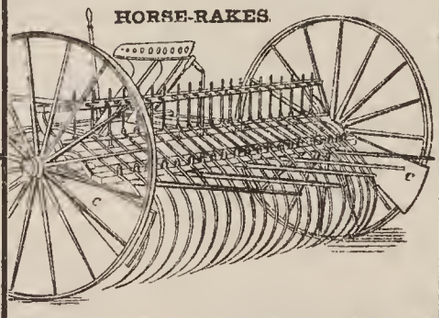
92,730,
MARCUS D. KIRK.
WILLIAM H. BELNAP.
FISHING-JACK.



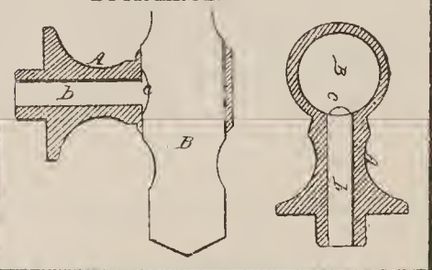
92,731, GEORGE KOCH. WILLIAM KOCH.
SHELVING FOR STORES.



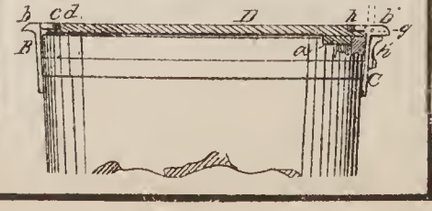
92,732. JOSEPH B. KOON.
HORSE-RAKES.



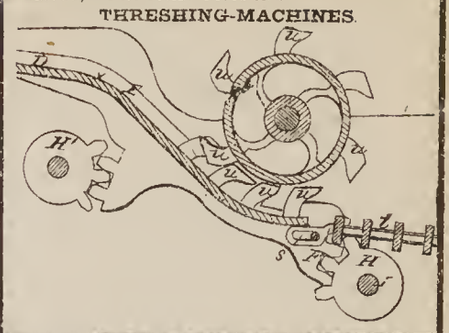
92,733, GEORGE B. LOTHROP.
DOOR-KNOB.



92,734. DAVID LOWN.
BUTTER-TUB.

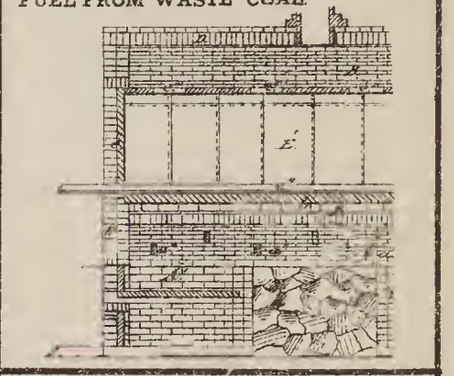


92,735, STEPHEN MAPES.
THRESHING-MACHINES.

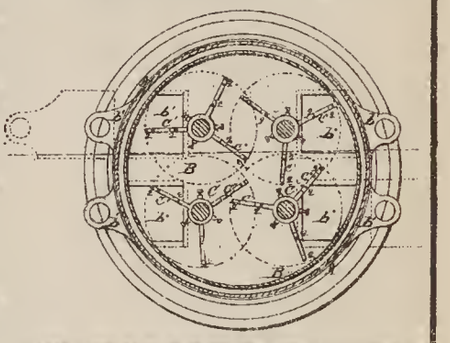


92,736. T. M. MITCHELL,
PROCESS AND APPARATUS FOR UTILIZING THE WASTE COAL OF MINES.

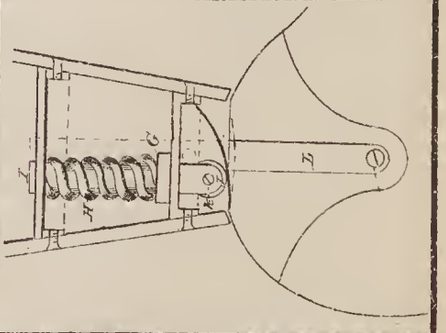
92,737. T. M. MITCHELL, DRYING AND BAKING-APPARATUS FOR PREPARING FUEL FROM WASTE COAL.



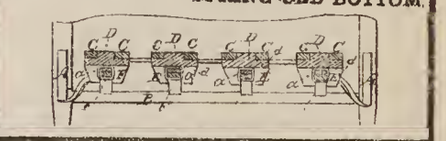
92,738, T. M. MITCHELL,
MIXING-APPARATUS FOR PREPARING WASTE COAL FOR FUEL.



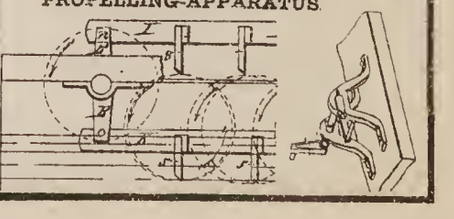
92,739, ROBERT MOORE.
ARTIFICIAL LEGS.



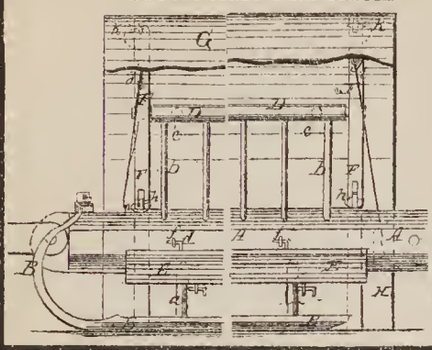
92,740, GEORGE W. MORRILL.
SPRING-BED BOTTOM.



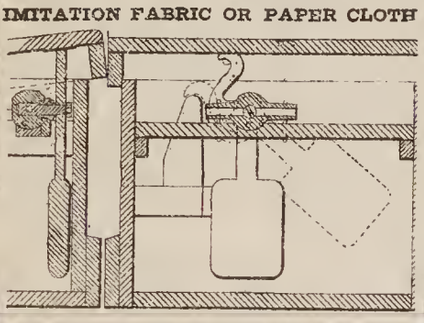
92,741, HOWELL MULFORD.
PROPELLING-APPARATUS.



92,742, T. BROD. MYERS.
STOCK-SHED AND RACK.

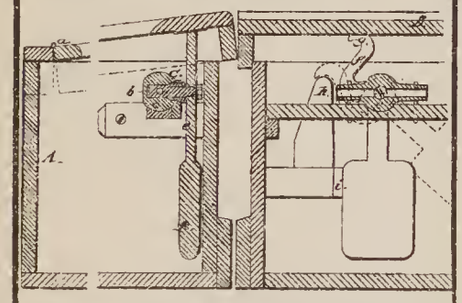


92,743, JAMES H. NEWTON.
IMITATION FABRIC OR PAPER CLOTH

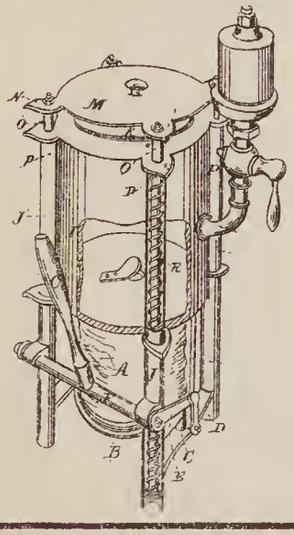


92,744, JOSHUA G. NICKERSON.
FERTILIZER FROM SEA-WEED.

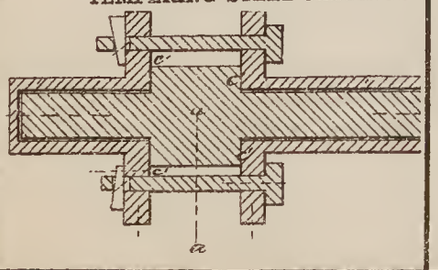
92,745, WILLIAM I. PAGE.
WATER-CLOSETS.



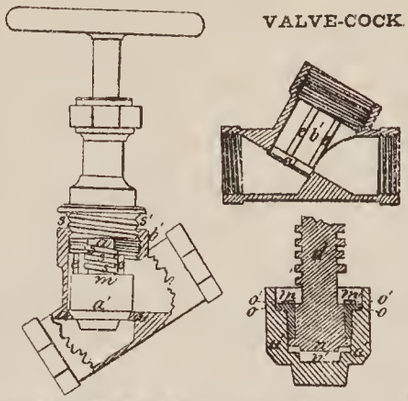
92,746, ZADOCK PANGBORN.
ALARMS FOR SAILING-VESSELS.



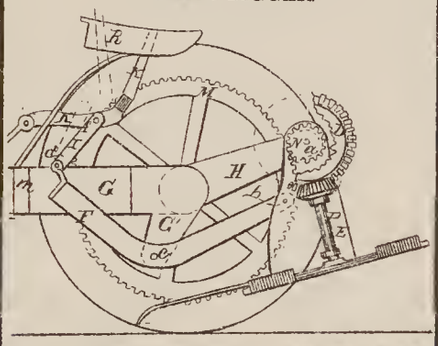
92,747, CHARLES PARKIN.
SAMUEL TRETHEWEY.
TEMPERING STEEL CASTINGS.



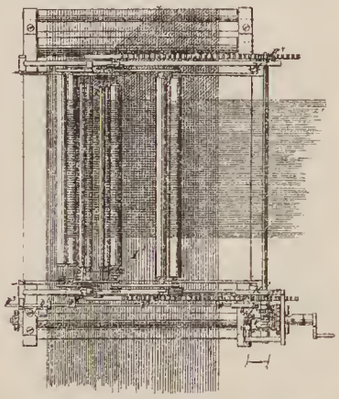
92,748, THOMAS RAMSDEN.
HENRY M. DAVIS.
VALVE-COCK.



92,749, BENJAMIN REAMER.
CORNELIUS VAN DERZEE.
POTATO-DIGGER.

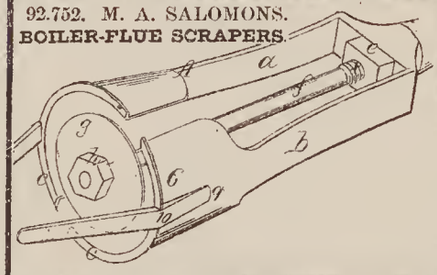


92,750, LYMAN ROBINSON.
MACHINES FOR CROSSING FIBRES IN FORMING BATS FOR FELTING.

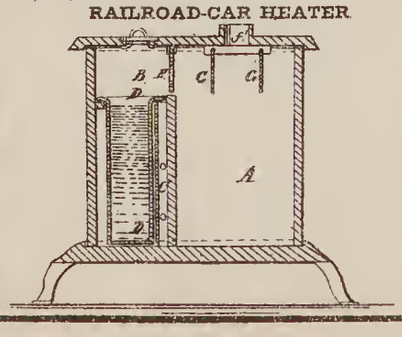


92,751, JOHN ROGERS.
LAURENCE REID. **TREATING AND REVIVIFYING BONE-BLACK.**

92,752. M. A. SALOMONS.
BOILER-FLUE SCRAPERS.



92,753, CYRUS SANBORN.
RAILROAD-CAR HEATER.



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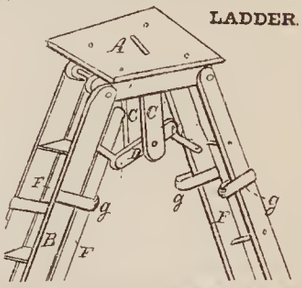
DUST-PAN.

92,755, BRONSON SCHOONMAKER.
LADDER.



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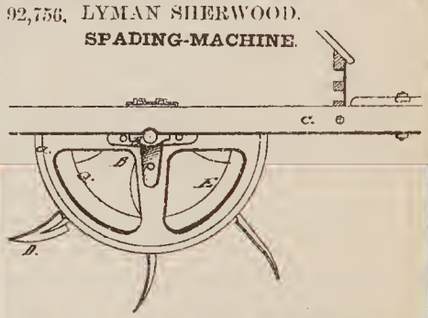
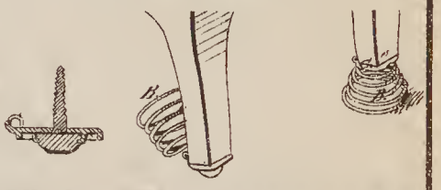
SPADING-MACHINE.



92,757, ROBT. SIM. **COMPOSITION FOR PREVENTING THE FOULING OF SHIPS' BOTTOMS.**

92,758, HARLOW C. SMITH.
SPRING-CHAIR.



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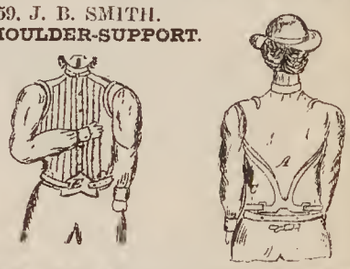
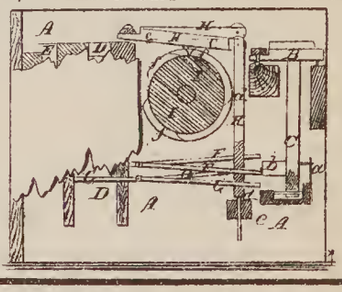
SHOULDER-SUPPORT.



92,760, ADAM STORCK **ORGAN-ACTION.**



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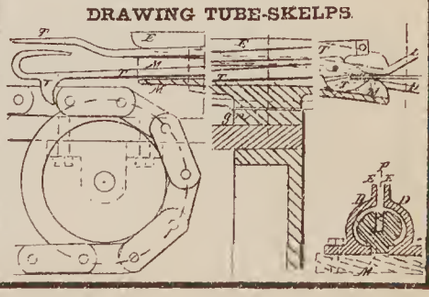
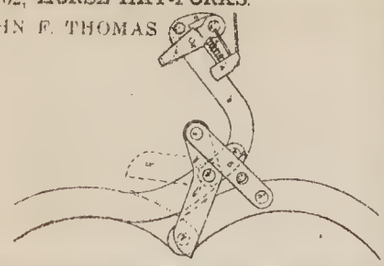
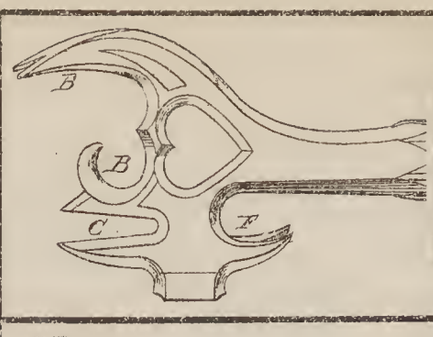
ROBT. BRIGGS.
DRAWING TUBE-SKELPS.

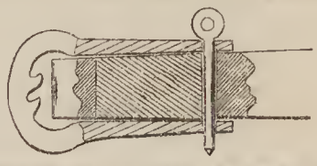


92,762, **HORSE HAY-FORKS.**
JOHN F. THOMAS

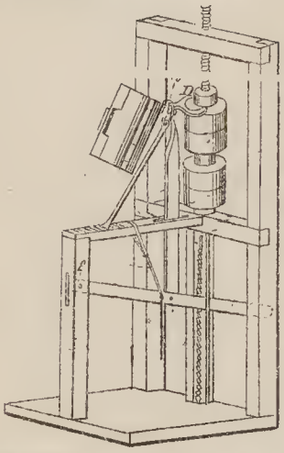


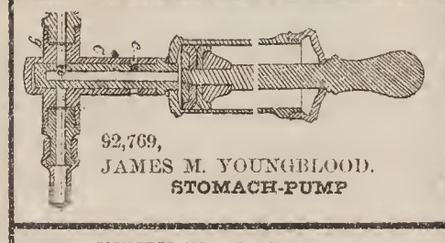


92,775, JAMES L. BALDWIN.
PLOW-BEAM-CLEVIS ATTACHMENT.



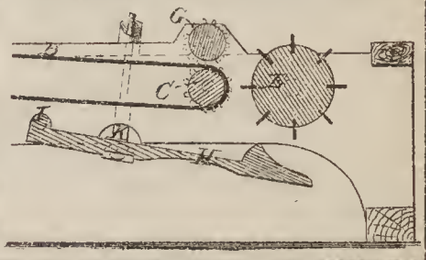
92,763, JOHN H. TUTTLE.
MANUFACTURE OF RUBBER BALLS.





92,769,
JAMES M. YOUNGBLOOD.
STOMACH-PUMP

92,776, O. W. BEAN.
BREAKING AND SCOURING HIDES.



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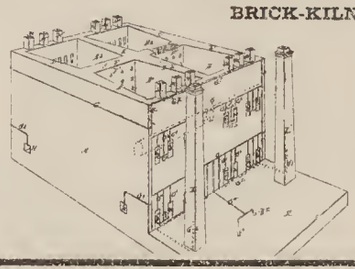
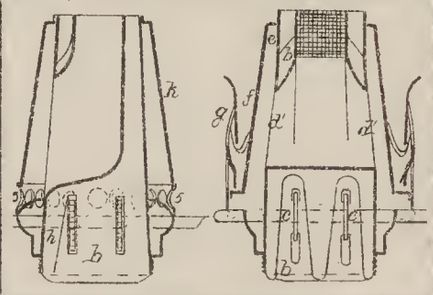
BRICK-KILNS.



92,764, JOHN H. TUTTLE.
PROCESS OF TREATING VULCANIZED RUBBER-THREAD WASTE

92,771, THOS. ADAMS. **LAMP-BURNERS.**



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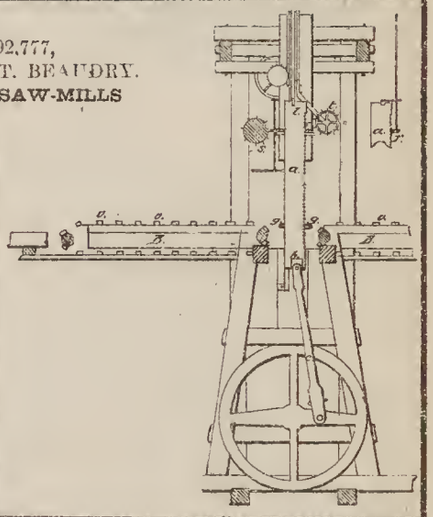
T. BEAUDRY.
SAW-MILLS



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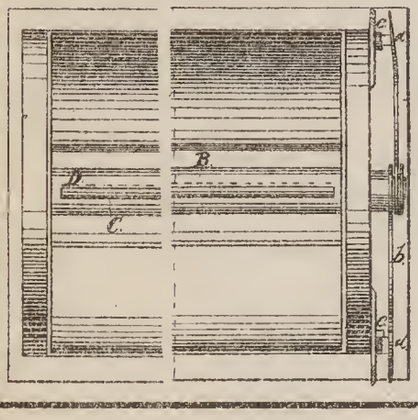
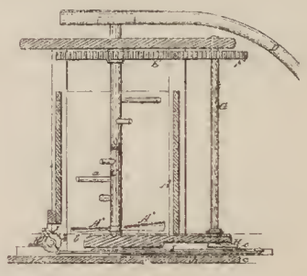
LITHOGRAPHIC PRESSES.



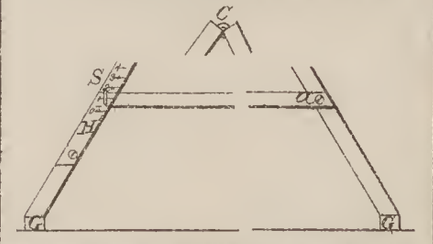
92,772, JOHN AHEARN. **PLANT-PROTECTOR ATTACHMENT TO PLOWS.**

92,778, S. W. BENNETT,
BRICK-MACHINE.



92,766,
ABEL WHITLOCK.
LAMP-CHIMNEYS.

92,773, F. A. ARCHIBALD
LAND-LEVEL AND MEASURE.



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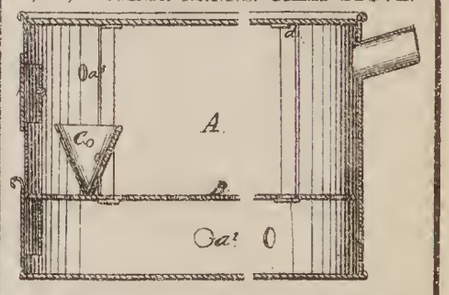

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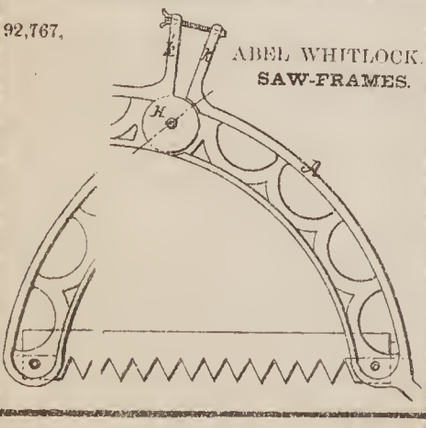
SAW-FRAMES.



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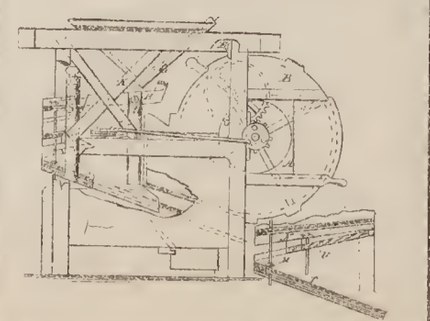

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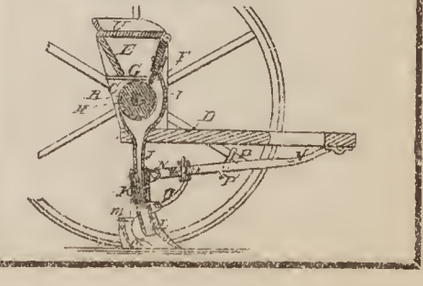
CORN-PLANTERS.



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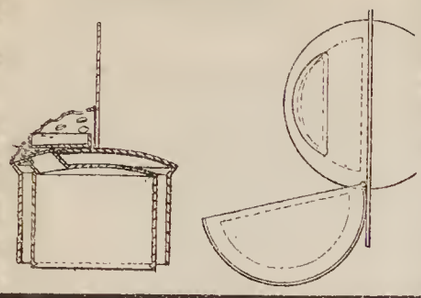
IMPLEMENT.

92,781, BENTLEY C. BIBB.
FIRE-PLACE HEATER.



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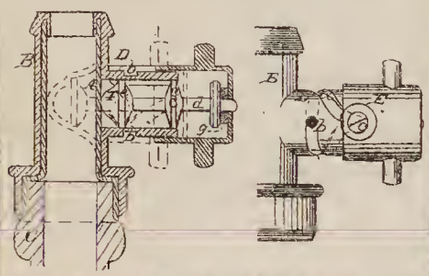
R. BOLLERMAN.
CLOSING BOTTLES AND PIPES.



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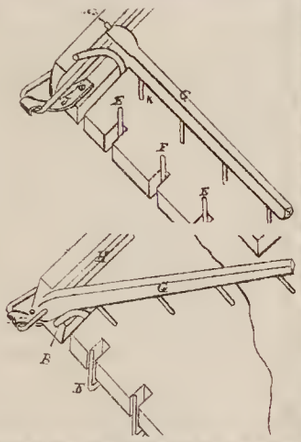
J. B. BOWEN.
CHARLES A. WHELAN.
CLEANTHUS A. REED.
HARVESTER-RAKES.



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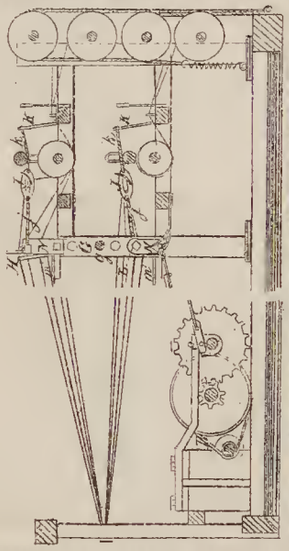
DRESSING WARP-THREADS.



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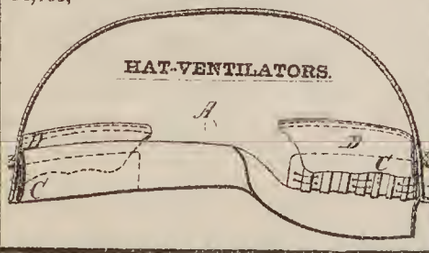
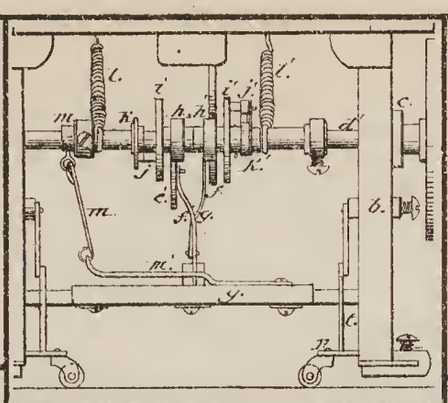
HAT-VENTILATORS.



92,786, JOHN A. BRADSHAW.
WM. H. BROWN.
DARIUS WHITHED.
DRIVING SEWING-MACHINES.



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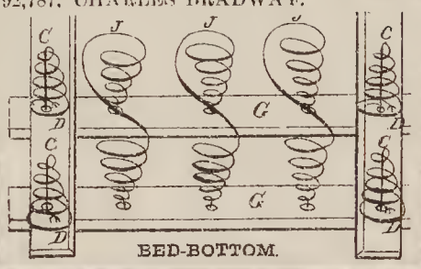
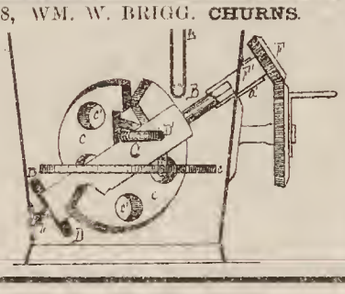
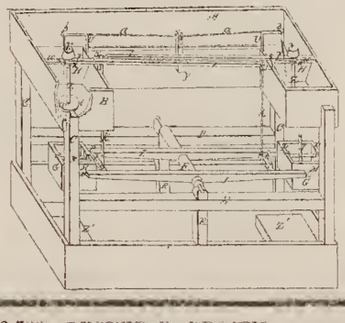


BED-BOTTOM.

92,788, WM. W. BRIGG. **CHURNS.**

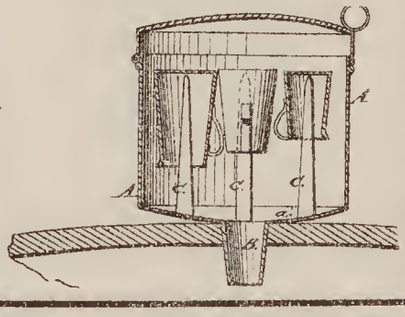


92,789, S. W. BROADWELL.
WATER-MOTOR.



92,790, LESTER B. BROWN.
BOILER-FLUE SCRAPERS.

92,791, GEORGE W. BURWELL.
MEASURE-HOLDER.



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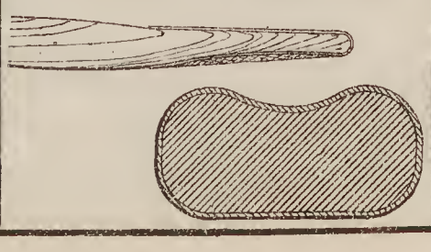
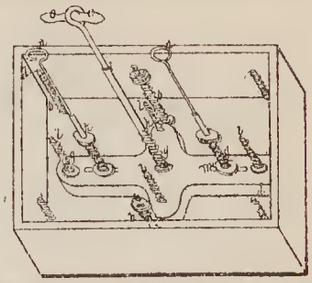
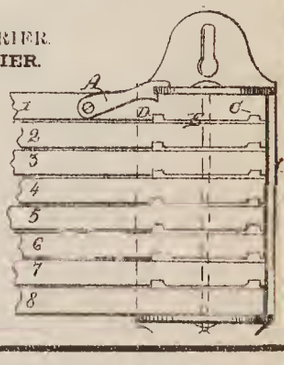


92,793, D. P. BUTLER.
SPRING LIFTING-APPARATUS.

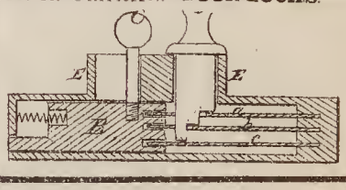


92,794,
CYRUS CARRIER.
CLOTHES-DRIER.

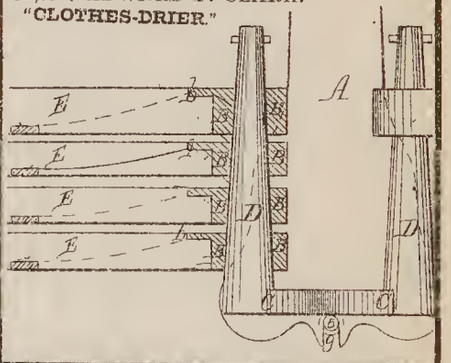


92,795, JULES JOSEPH CHAUDUN.
METALLIC CARTRIDGES.

92,796, H. CLARKE. **DOOR-LOCKS.**



92,797, EDWARD P. CLARK.
"CLOTHES-DRIER."



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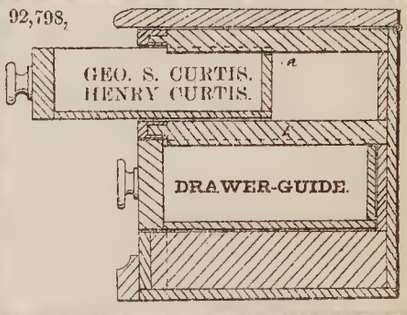
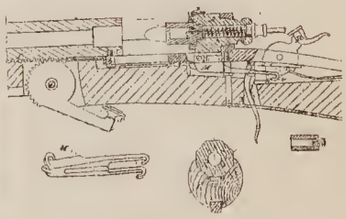
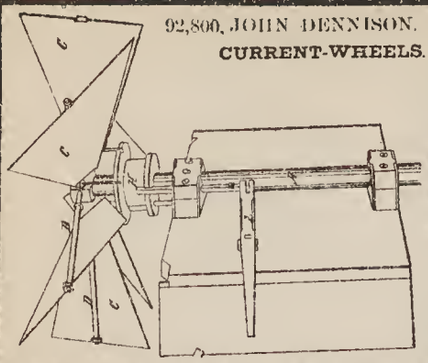


92,799, LS. T. DELASSIZE.
BREECH-LOADERS.

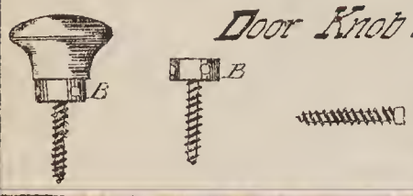


92,800, JOHN DENNISON.
CURRENT-WHEELS.

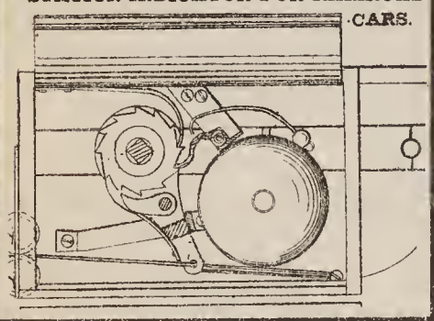


92,801, W. EDSON DOOLITTLE.

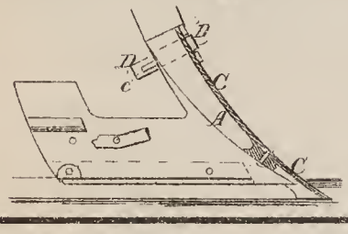
Door Knob.



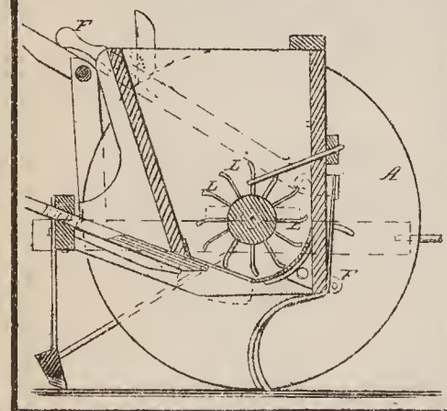
92,802, W. H. ECKERT. J. A. BLACK.
STATION-INDICATOR FOR RAILROAD-CARS.



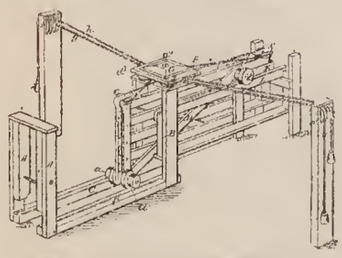
92,803, A. N. EDWARDS. **PLOWS.**



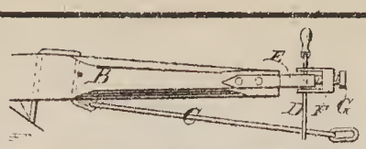
92,804, J. M. ELLIOTT.
COTTON-SEED PLANTERS.



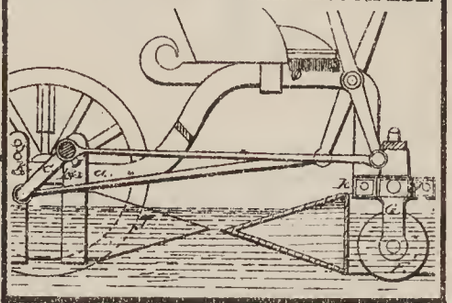
92,805, THOMAS ELLISON.
SLIDING FARM-GATE.



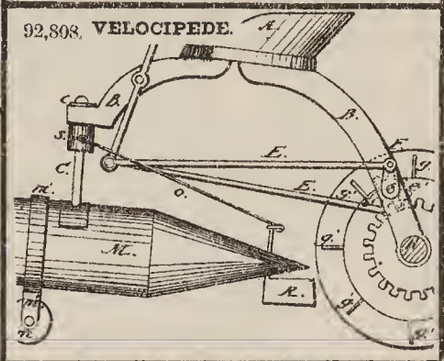
92,806, PHILLIP FALKER.
PLOWS.



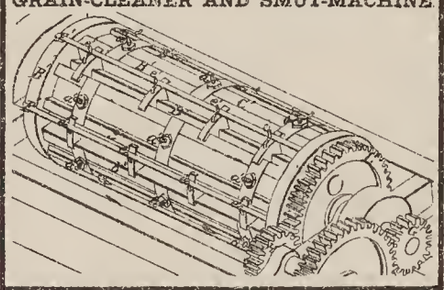
92,807, DAVID J. FARMER.
LAND AND WATER-VELOCIPEDE.



92,808, **VELOCIPEDE.**



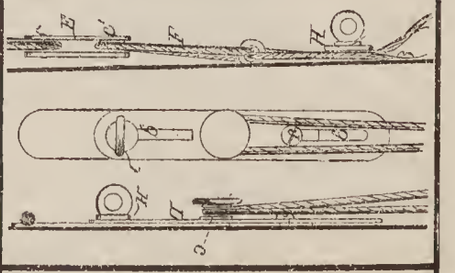
92,809, JOHN FERGUSON.
GRAIN-CLEANER AND SMUT-MACHINE.



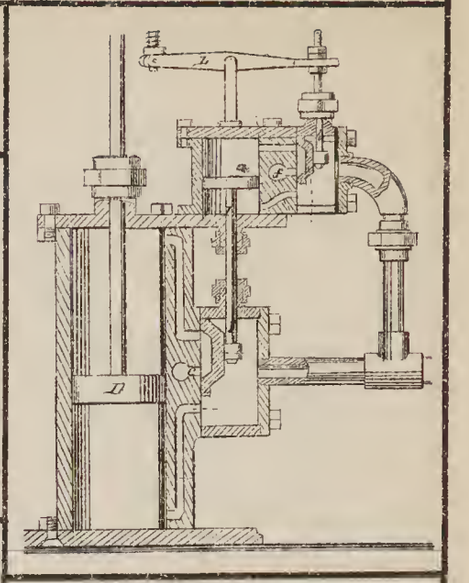
92,810, RANDALL FISH.
IMPROVED FERTILIZER.

92,811.
EDWARD FLEISCHER.
HOOP-SKIRTS.

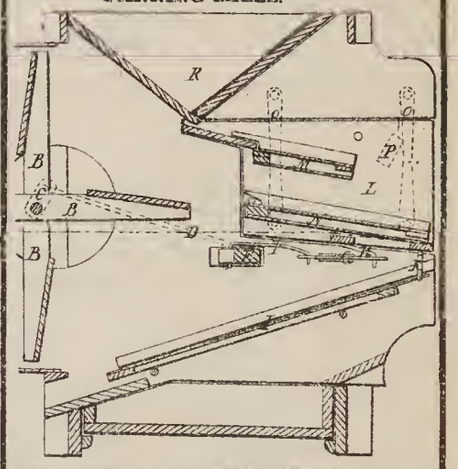
92,812. J. W. FOARD.
CURTAIN-FIXTURE.



92,813, I. N. FORRESTER.
VALVE-GEAR FOR ACTUATING STEAM AND OTHER ENGINERY.



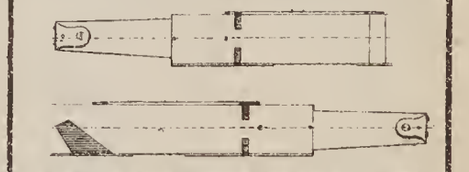
92,814, SAMUEL FOSTER,
FANNING-MILLS.



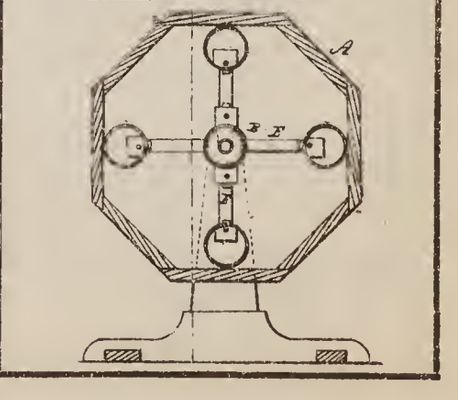
92,815,
ORRIN B. GALLUP.
ROUND COMBS.

92,816, ISAAC M. GATTMAN.
MANUFACTURE OF WHITE LEAD.

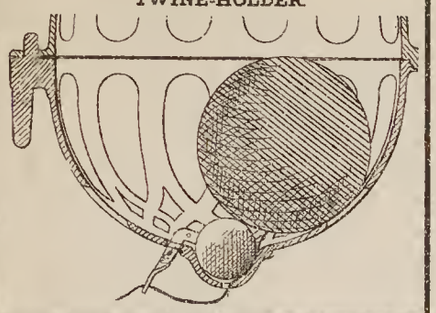
92,817. PETER GEISER.
GAUGES FOR MAKING AXLES.



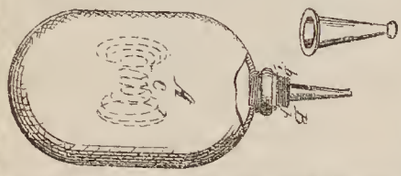
92,818, ROBERT GLORE.
DRESSING FEATHERS.



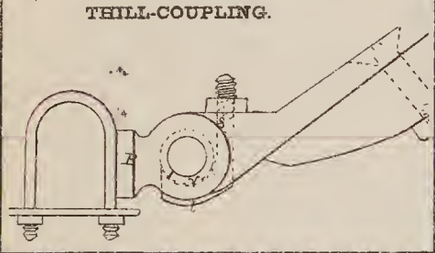
92,819, ALBERT J. GOODRICH.
TWINE-HOLDER.



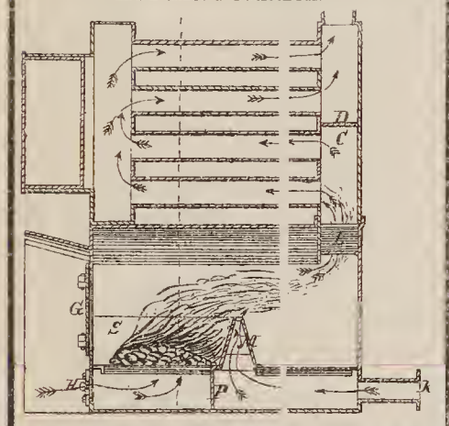
92,820, JOHN P. HAINES. **OIL-CUPS.**



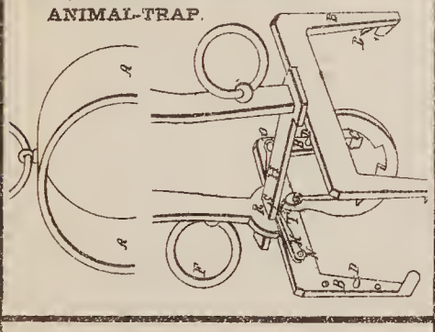
92,821, B. F. HARRISON.
THILL-COUPLING.



92,822, ORANGE N. HART.
HOT-AIR FURNACE.



92,823, DANIEL HARWOOD.
ANIMAL-TRAP.

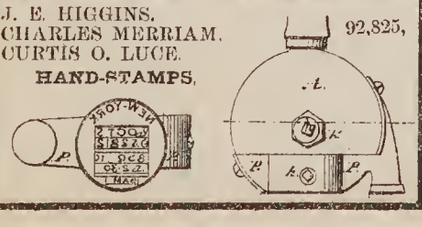


92,824, M. C. HEPTINSTALL.

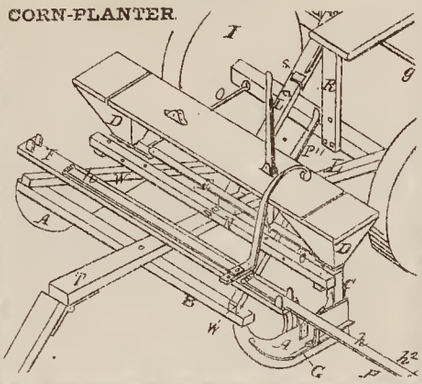
REIN-HOLDER.

J. E. HIGGINS.
CHARLES MERRIAM.
CURTIS O. LUCE.
HAND-STAMPS.

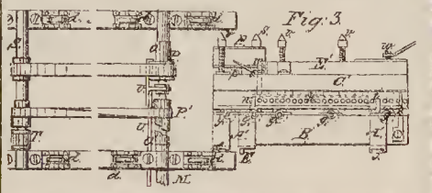
92,825,



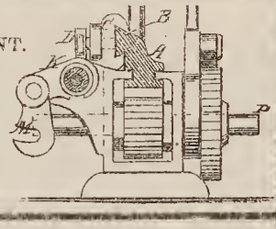
92,826, ALBERT HODGSON.
EDWIN HODGSON.
CORN-PLANTER.



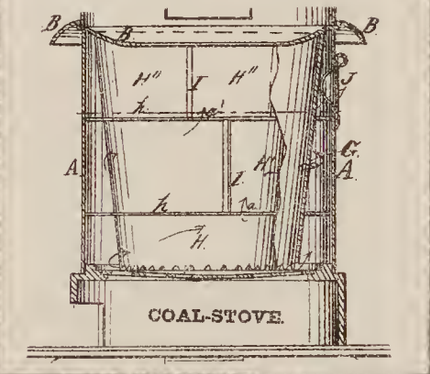
92,827, T. S. HOWARD.
CUTTING STONE AND MARBLE.



92,828,
NATHAN HUNT.
HEAD-BLOCK.

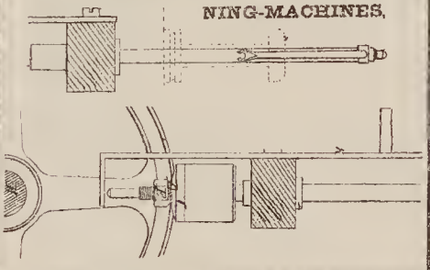


92,829, GEORGE A. HUNTLEY.

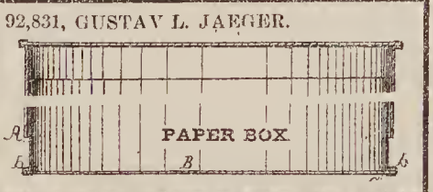


COAL-STOVE.

92,830, F. DE BRUYN. E. HURET.
DEVICE FOR STOPPING THE REVOLUTION OF SPINDLES IN SPINNING-MACHINES.



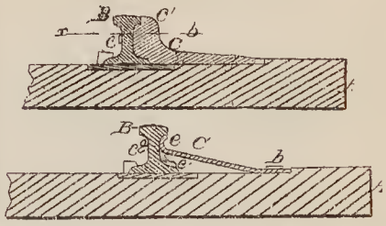
92,831, GUSTAV L. JAEGER.



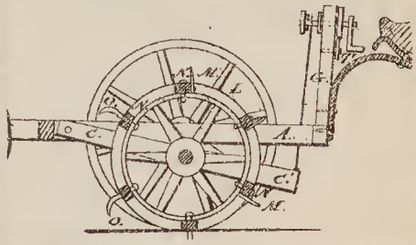
PAPER BOX.

92,832, GEORGE HENRY JAMES.
JOSIAH JAMES.
CARD-CASES.

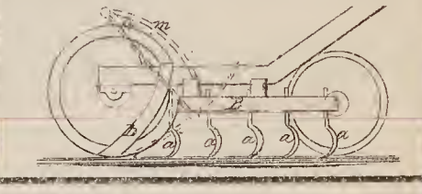
92,833, G. E. JARVIS.
RAILWAY-RAIL JOINT.



92,834, JAMES G. JOHNSON.
CULTIVATOR AND STALK-CUTTER.

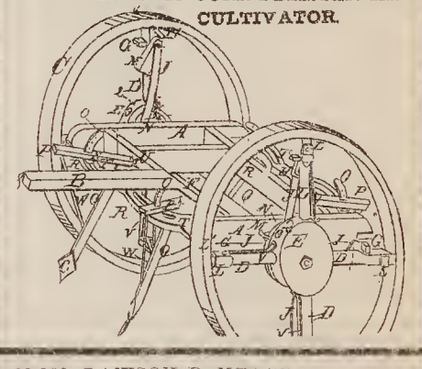


92,835, O. H. JOHNSON. **CULTIVATOR.**

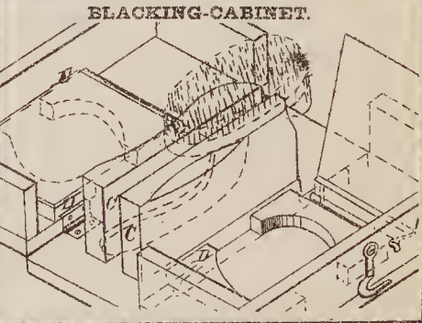


92,836, JOHN ROBT. JOHNSON.
PHOTOGRAPHIC PICTURES.

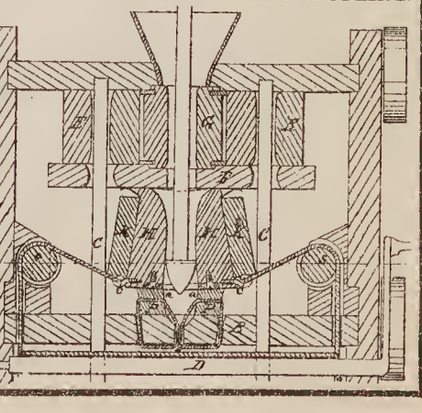
92,837, M. J. KAVANAGH. M. GREGG.
COMBINED CORN-PLANTER AND CULTIVATOR.



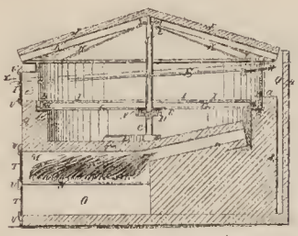
92,838, LAWSON P. KEACH.
BLACKING-CABINET.



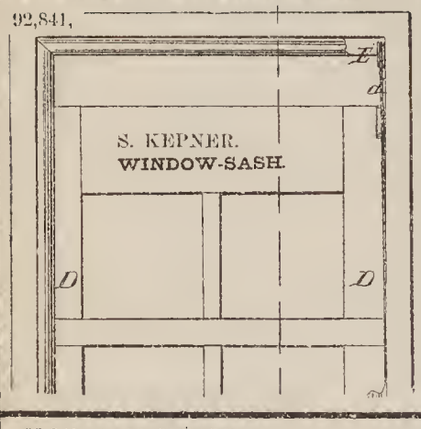
92,839, ORSON KELSEY.
RAILWAY-CAR COUPLING.



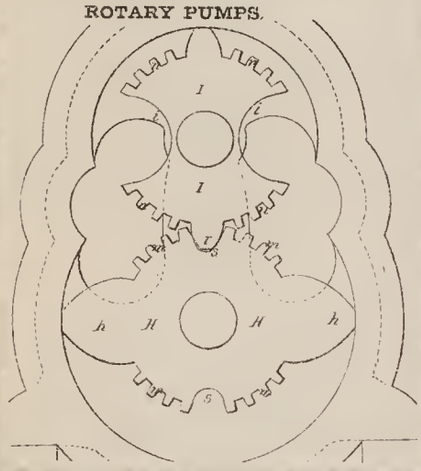
92,840, D. A. KENNEDY.
ROTARY OVENS.



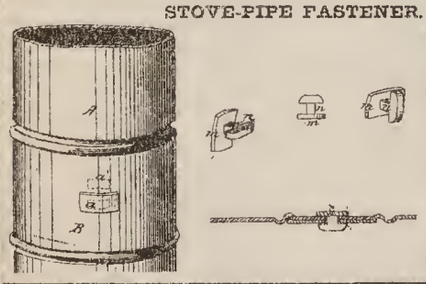
92,841,
S. KEPNER.
WINDOW-SASH.



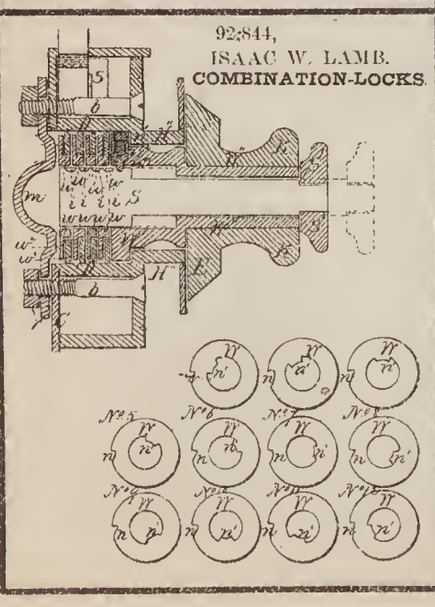
92,842, A. H. KNAPP.
ROTARY PUMPS.



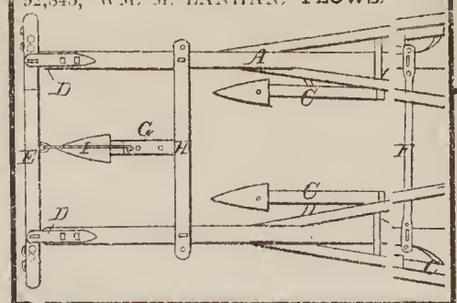
92,843, ISAAC W. LAMB.
STOVE-PIPE FASTENER.



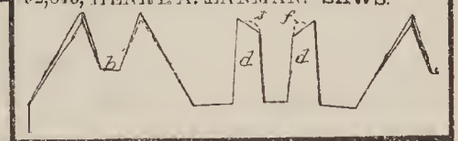
92,844,
ISAAC W. LAMB.
COMBINATION-LOCKS.

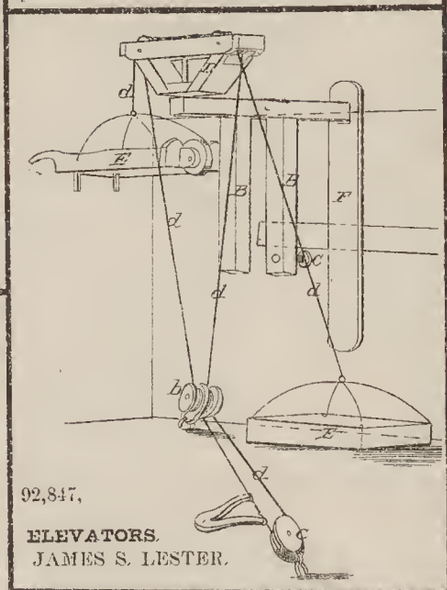


92,845, WM. M. LANHAN. **PLOWS.**



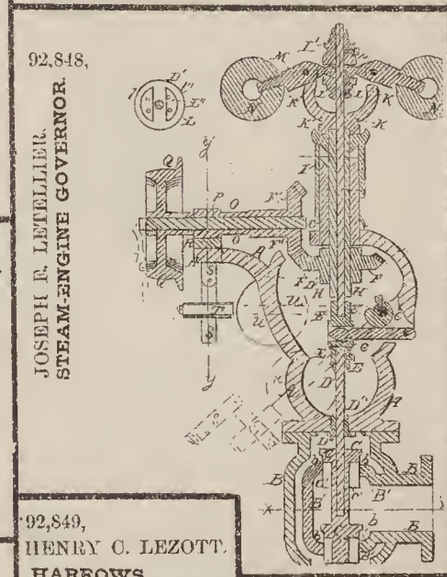
92,846, HENRY A. LANMAN. **SAWS.**



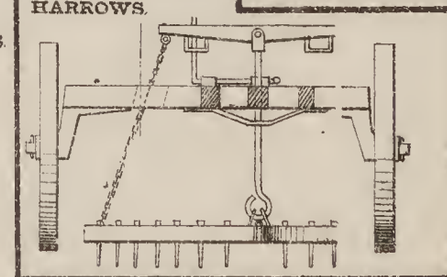


92,847,
ELEVATORS.
JAMES S. LESTER.

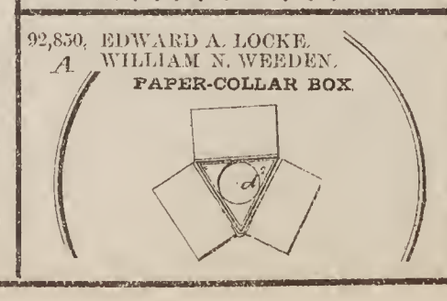
92,848,
JOSEPH R. LETELLIER.
STEAM-ENGINE GOVERNOR.



92,849,
HENRY C. LEZOTT.
HARROWS.

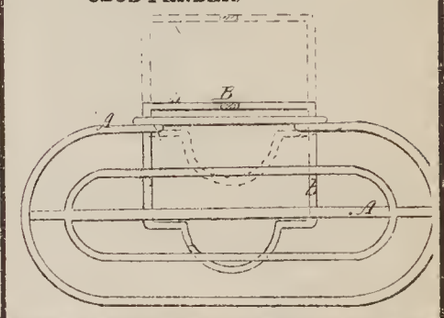


92,850, EDWARD A. LOCKE.
A. WILLIAM N. WEEDEN.
PAPER-COLLAR BOX.

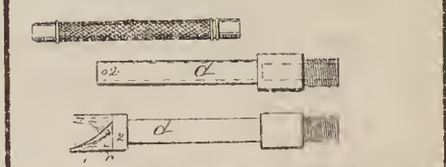


92,851, WILLIAM E. LOCKWOOD.
FABRIC WHEREOF TO MAKE COLLARS, CUFFS, BOSOMS, AND OTHER ARTICLES OF WEARING-APPAREL.

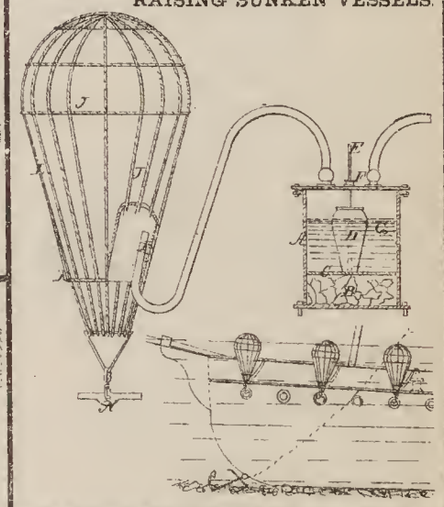
92,852, JAMES W. LOVELESS.
CLOD-FENDER.



92,853, WM. A. LUDDEN.
PENCIL-CASES.

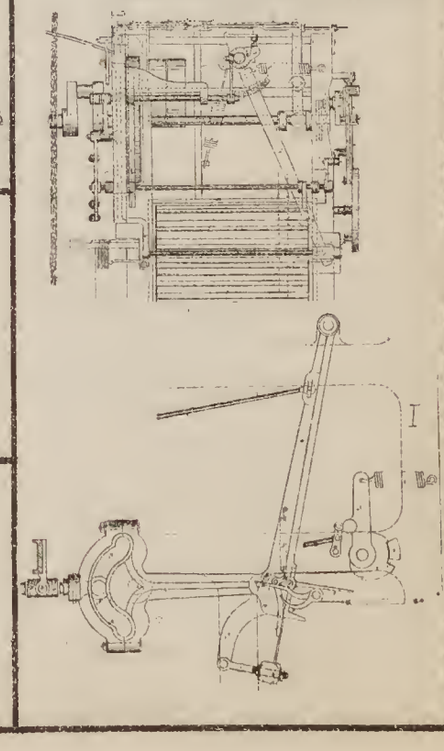


92,854, SAMUEL WILLIAM MAQUAY.
RAISING SUNKEN VESSELS.

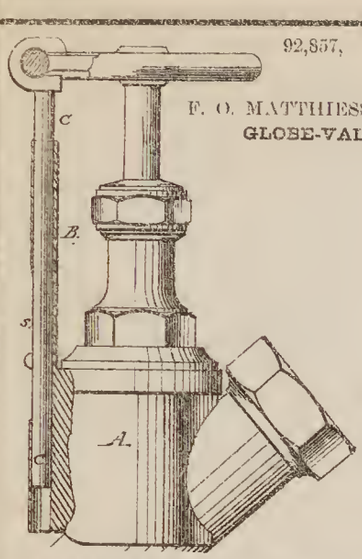


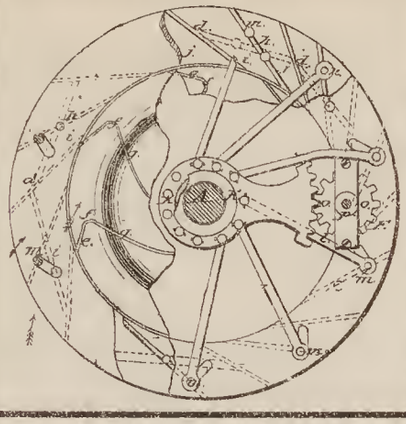
92,855, FÉLICIE F. N. MARAIS.
WASHING AND CLEANSING-FLUID.

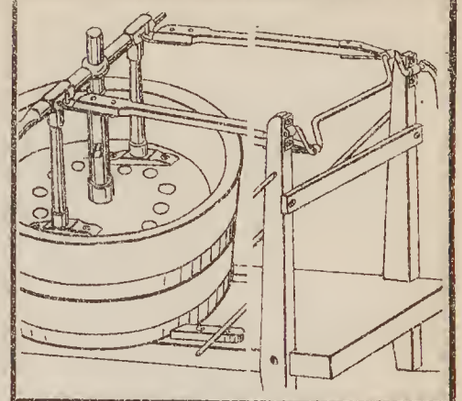
92,856, JOHN MARSDEN.
LOOM FOR WEAVING CARPETS.



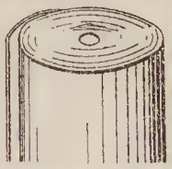
92,857, F. O. MATTHIESSEN. GLOBE-VALVES.



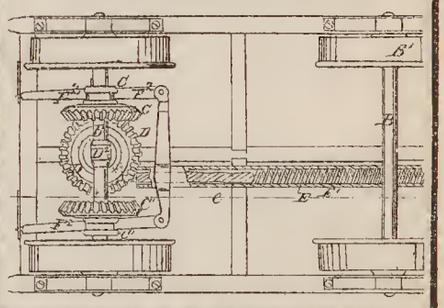




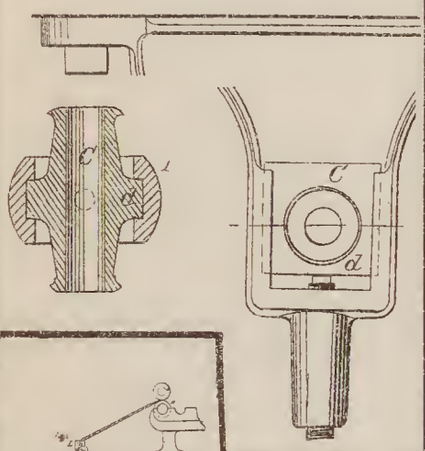
92,863. S. T. MERRILL. ARTICLE OF STRAW-BOARD.



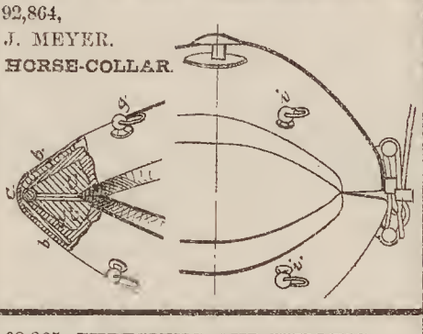
92,869, DAVID M. MOORE. CAR-BRAKE AND STARTER.



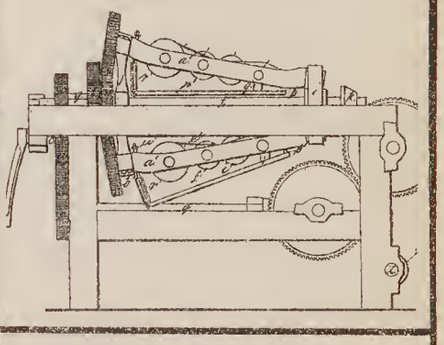
92,858, E. M. MAYO. HANGERS FOR SHAFTING.



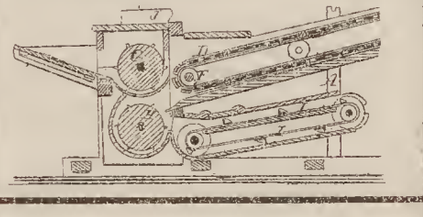
92,864, J. MEYER. HORSE-COLLAR.

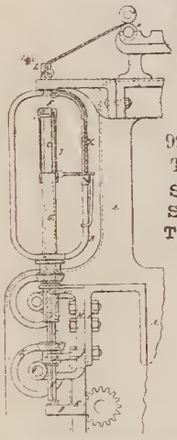


92,870, CHAS. H. MORGAN. MAKING WIRE ROPE.



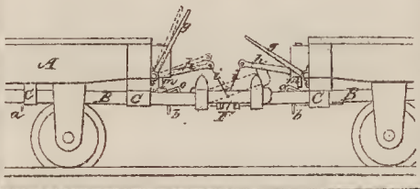
92,865, THRESHING AND HULLING CLOVER-SEED. ZEPHANIAH MILLER.



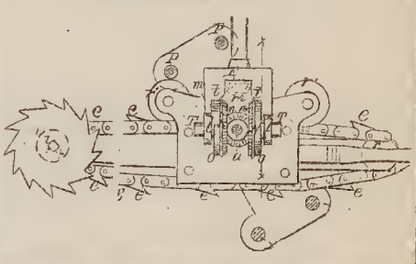


92,859, THOMAS MAYOR. SPEEDERS FOR SPINNING AND TWISTING ROVING.

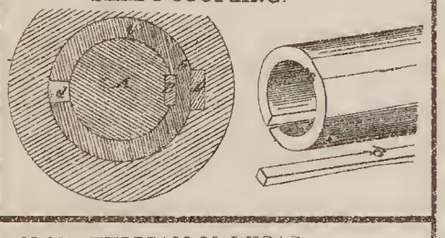
92,866, ISAAC N. MITCHELL. CAR-COUPLING.



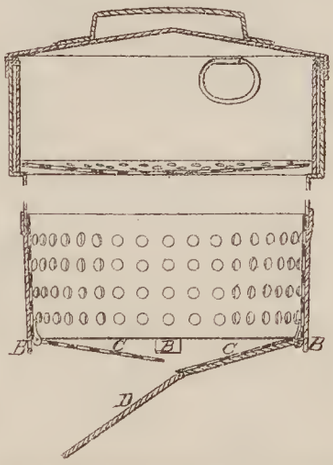
92,871, DAVID MORRIS. MINING-MACHINE.



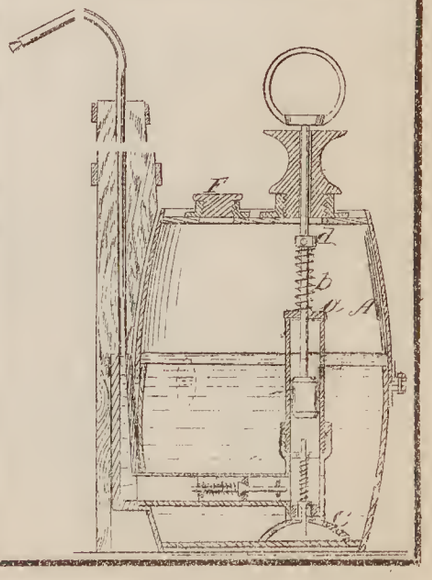
92,860, WM. S. McKINNEY. SHAFT-COUPLING.



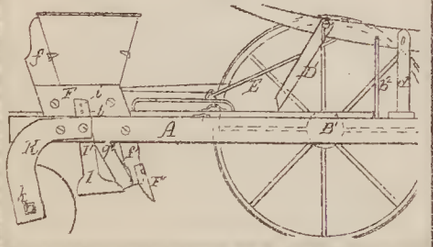
92,867, OTIS M. MITCHELL. CULINARY VESSEL.



92,872, CHAS. A. MORTON. OILERS FOR MACHINERY.



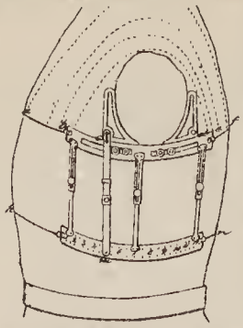
92,861, WILLIAM McLUCAS. CORN-PLANTERS.



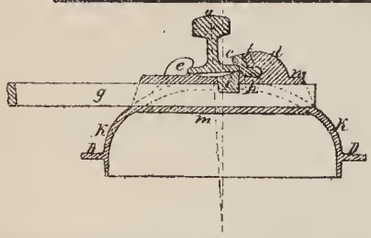
92,862, FERDINAND MEHRMANN. WATER-WHEELS.

92,868, OTIS M. MITCHELL. WASHING-MACHINES.

92,873. FR. MUELLER. H. KOELLER.
TAILORS' MEASURING-APPARATUS.



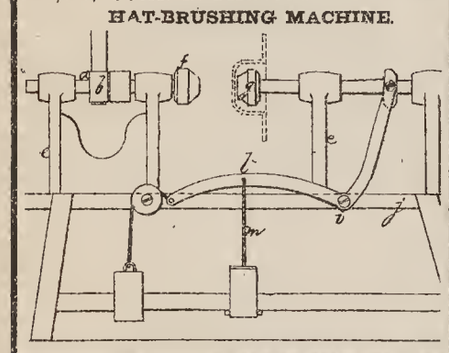
92,874. **RAILWAYS.**
W. J. COCKBURN MUIR.



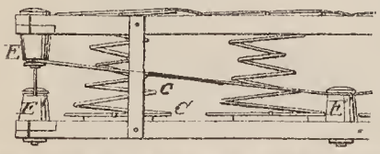
92,875, BYRON W. NICHOLS.
COMPOSITION OF MATTER TO BE USED IN THE PROCESS OF RESTORING STEEL.

92,876, BYRON W. NICHOLS.
CONVERTING ARTICLES OF CAST-IRON INTO STEEL.

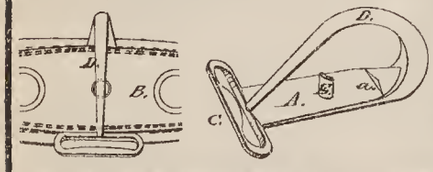
92,877, JOHN D. PARSONS.
HAT-BRUSHING MACHINE.



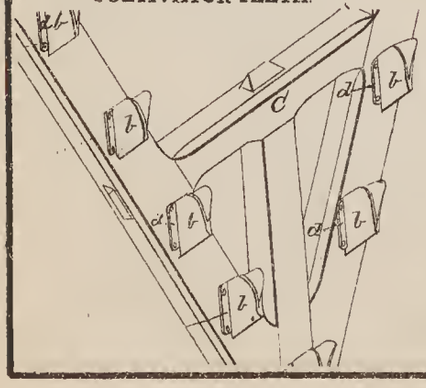
92,878, BYRON PARTELLO.
BED-BOTTOM.



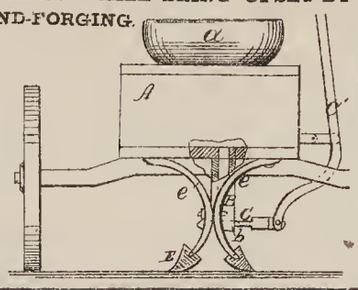
92,879, CHARLES B. PAYNE.
CHECK-HOOK.



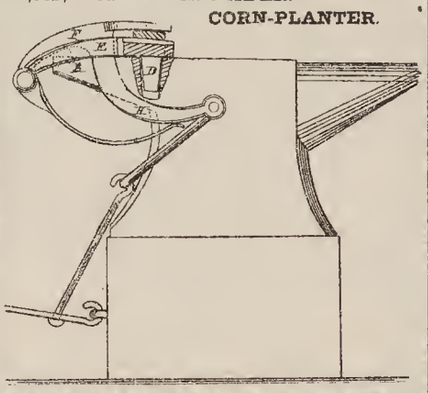
92,880. E. B. PRATT.
CULTIVATOR-TEETH.



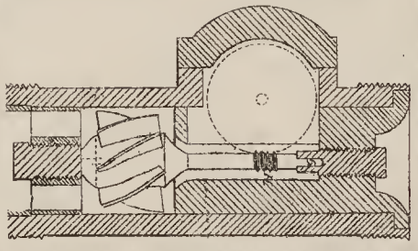
92,881 N. P. QUICK.
SMITHS' ANVIL-CLAMP FOR HOLDING TIRES WHILE BEING UPSET BY HAND-FORGING.



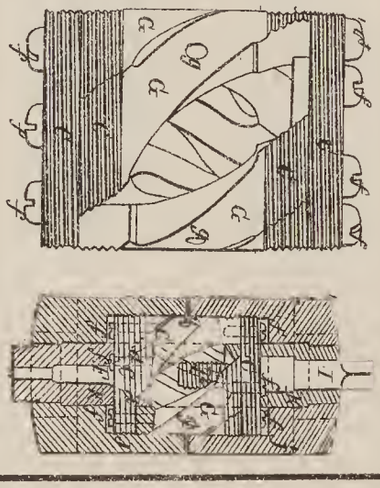
92,882, JONATHAN RADER.
CORN-PLANTER.



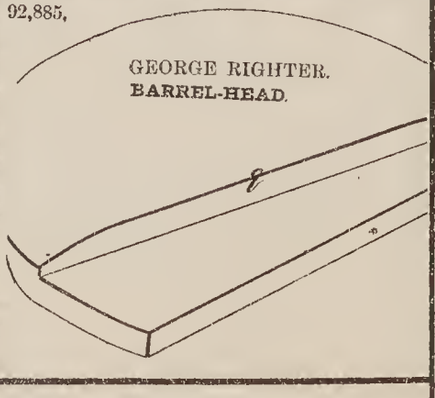
92,883, H. F. READ. **WATER-METERS.**



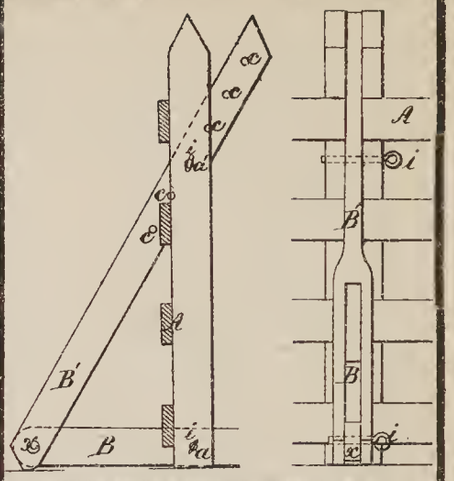
92,884, H. F. READ. **MOULDING PROPELLERS FOR WATER-METERS.**



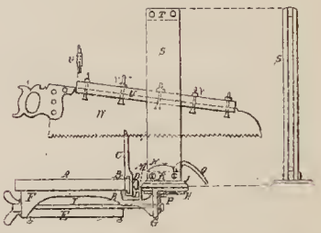
92,885,
GEORGE RIGHTER.
BARREL-HEAD.



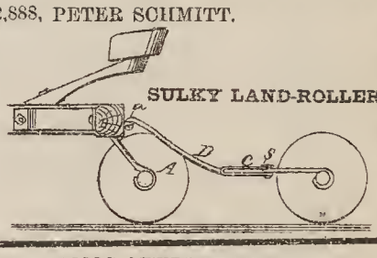
92,886, JOHN RIORDAN.
FENCE.



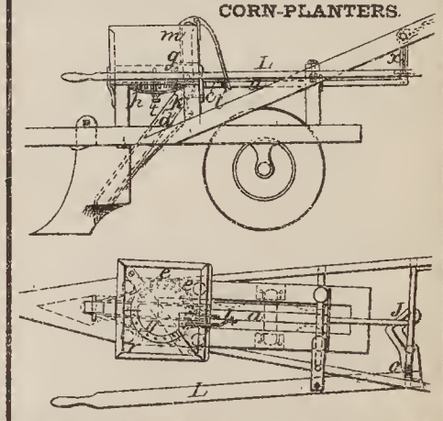
92,887, MARVIN OWEN ROYCE.
MITRE-BOX.



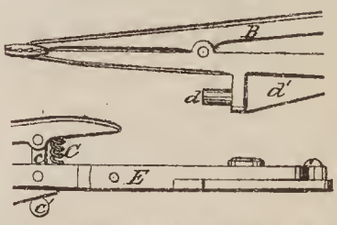
92,888, PETER SCHMITT.
SULKY LAND-ROLLERS.



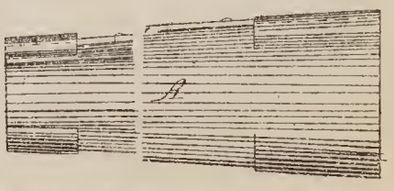
92,889, AMOS SHELLABARGER.
CORN-PLANTERS.



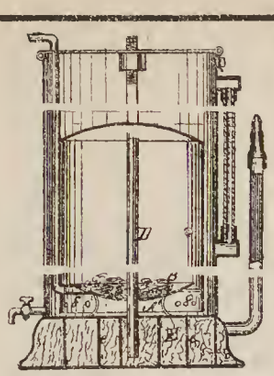
92,890, JOSEPH SIMPSON.
TEMPLE FOR LOOM.



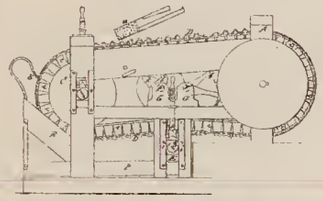
92,891, S. W. SLOCUMB. **WAGON-AXLE.**



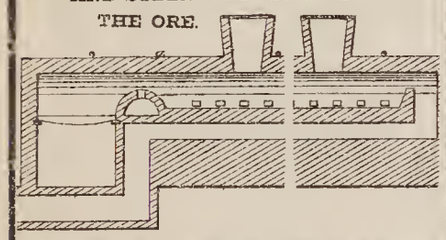
92,892, BYRON SLOPER.
GENERATOR AND CARBURETER.



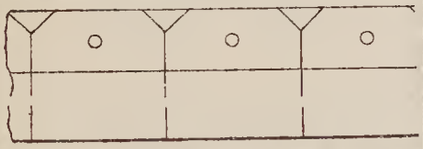
92,893. CHARLES D. SMITH.
ORE-CONCENTRATOR AND ENDLESS SLUICE-BLANKET.



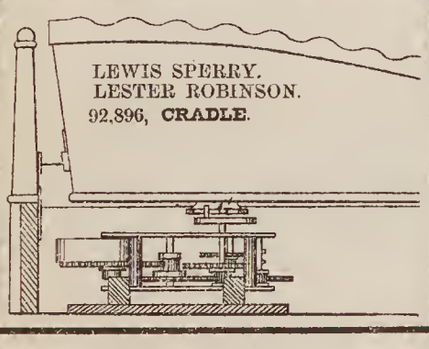
92,894. GEORGE HAND SMITH.
MANUFACTURE OF WROUGHT-IRON AND STEEL DIRECT FROM THE ORE.



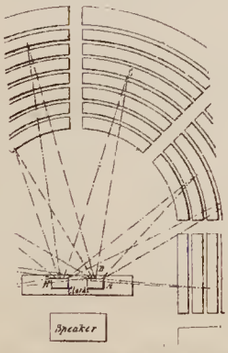
92,895, T. J. SOUTHWORTH. TAGS.



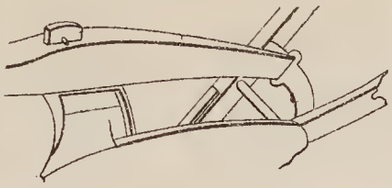
LEWIS SPERRY.
LESTER ROBINSON.
92,896, CRADLE.



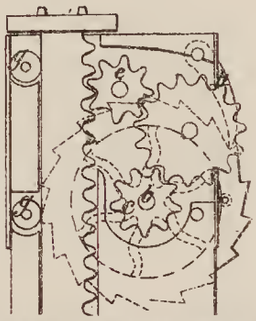
92,897. WM. M. SPRINGER.
LEGISLATIVE VOTING APPARATUS.



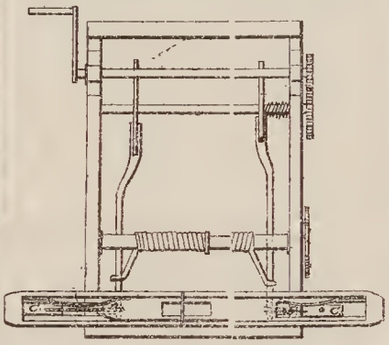
92,898, HENRY STEM.
PLOWS.



92,899. JACOB STEUER.
CARRIAGE-JACK.

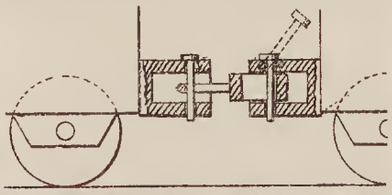


92,900, ENOCH P. TERREL.
PICKING-STAFF IN LOOMS.
MECHANISM FOR OPERATING THE

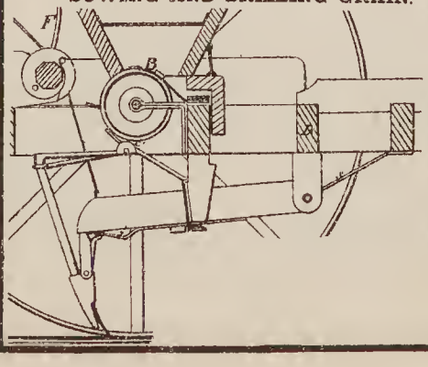


92,901, MACKLOT THOMPSON.
IMPROVEMENT IN
MASHING GRAIN FOR DISTILLATION.

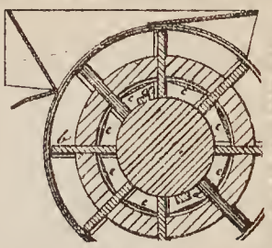
92,902,
W. C. TILTON.
IMPROVED RAILWAY-CAR COUPLING.



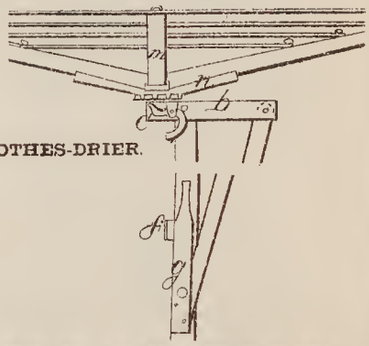
92,903, GILES A. TITUS.
SOWING AND DRILLING GRAIN.



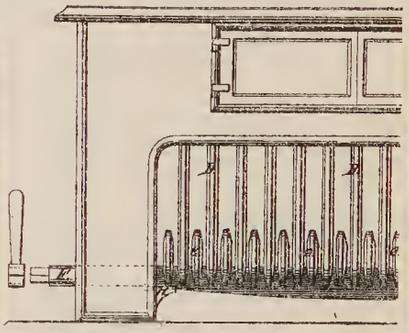
92,904, GILES A. TITUS.
DISTRIBUTERS FOR SOWING AND DRILLING GRAIN.



92,905, LEWIS A. TOWNE.
CLOTHES-DRIER.

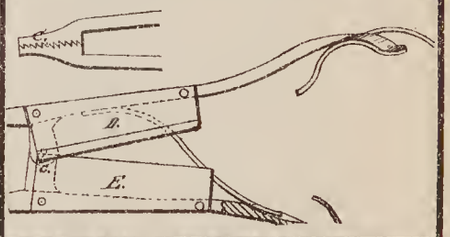


92,906, CHARLES TRUESDALE.
STOVE-GRATE.

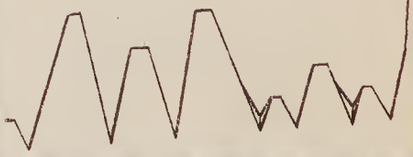


92,907, CHARLES L. TUCKER.
MANUFACTURE OF CHIPPED BEEF.

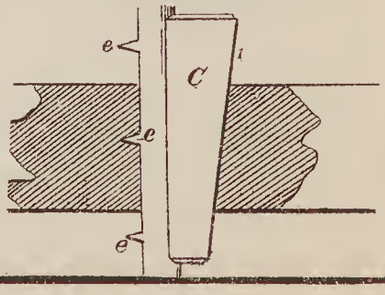
92,908, CHARLES M. TYLER.
COMBINED LAMP-WICK TRIMMER, CHIMNEY-CLEANER, AND LIFTER.



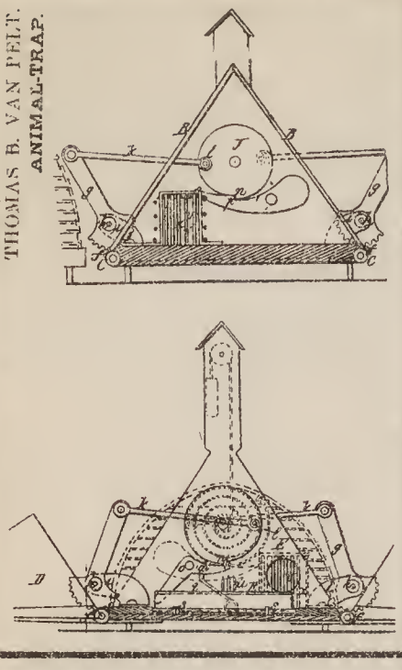
92,909, JOHN P. TYLER. SAWS.



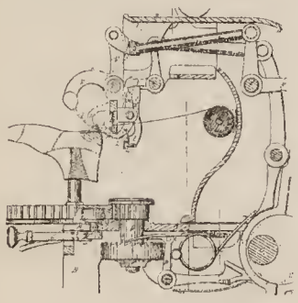
92,910, BENJAMIN VAN BRAEKLIN.
CULTIVATOR-TEETH.



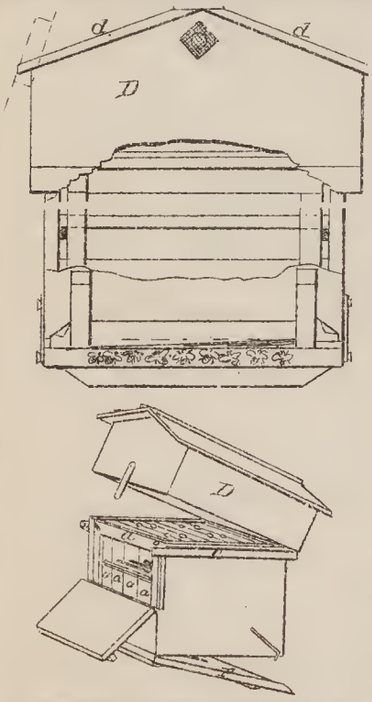
92,911, THOMAS B. VAN PELT. ANIMAL-TRAP.



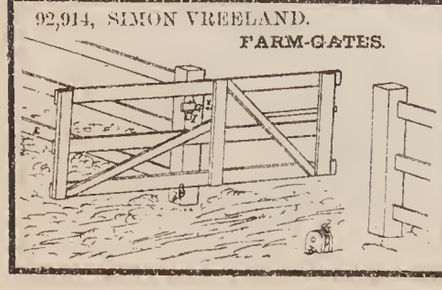
92,912, SEWING-MACHINE FOR SEWING TURNED SHOES. FRIEDR. VETTER.



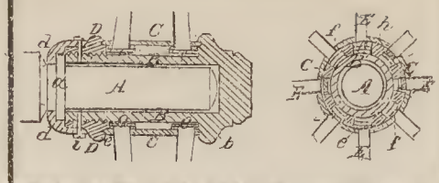
92,913, SIMON VREELAND. BEE-HIVES.



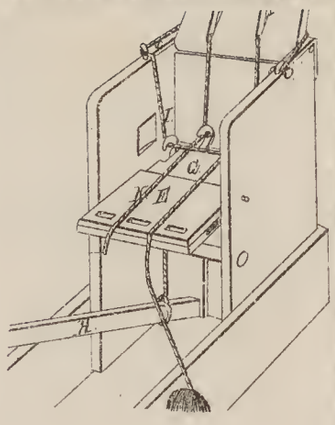
92,914, SIMON VREELAND. FARM-GATES.



92,915. SIMON VREELAND. CARRIAGE-WHEELS.



92,916. JAMES WALTON. FLEECE-BUNDLING APPARATUS.



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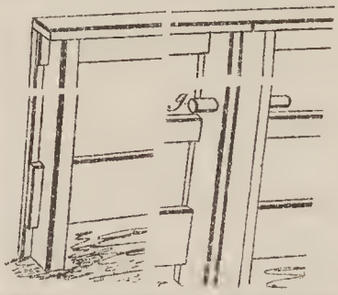
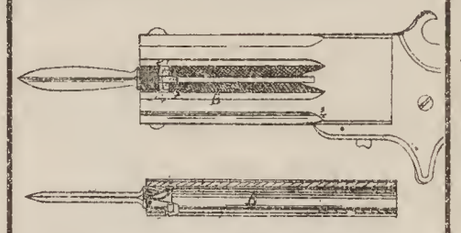
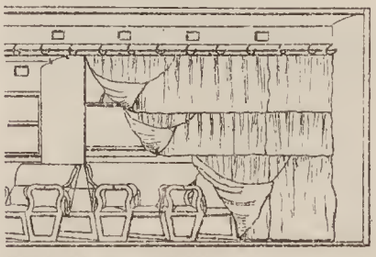


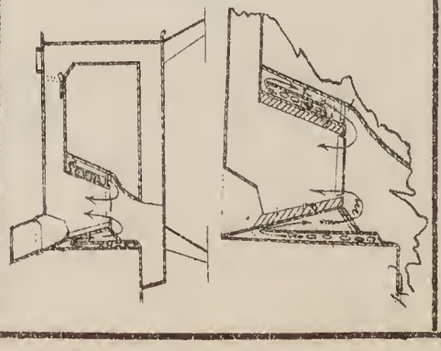
92,918. FRANKLIN WESSON. COMBINED PISTOL AND DIRK.



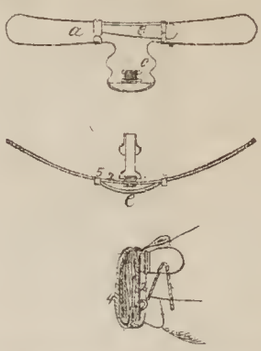
92,919, M. ALLISON WHEELER. SLEEPING-CAR.



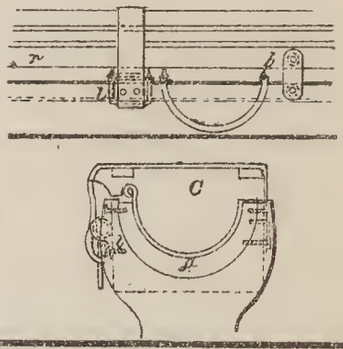
92,920, JOSEPH B. WILKINSON. COOKING-STOVE.



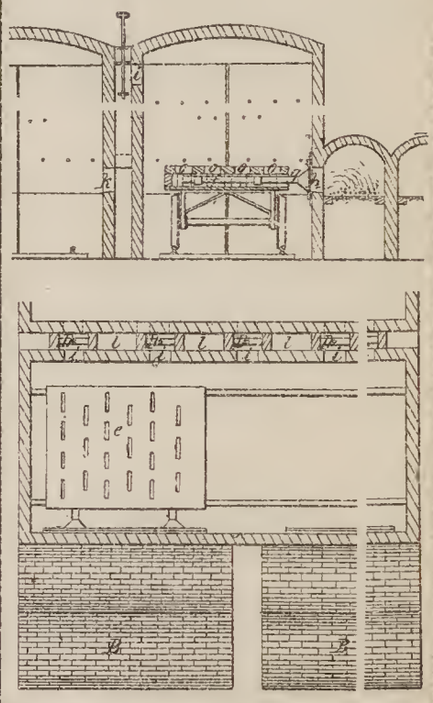
92,921, ELIAS WOODWARD. NECKTIES AND BOWS.



92,922, JOHN N. WOOLWIN. TINNERS' GUTTER-TROUGH.

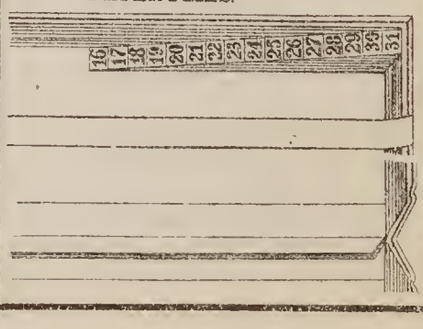


92,923. ALFRED J. WORKS. BRICK-KILN.

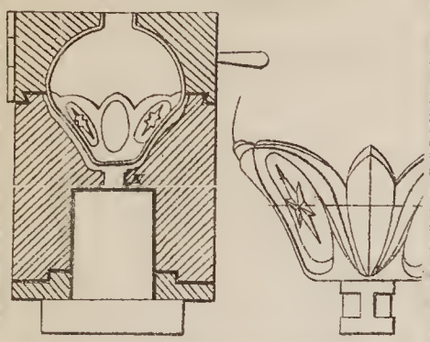


92,924, WILLIAM K. WYCKOFF. COMPOUND OIL FOR COATING LEATHER AND METALS.

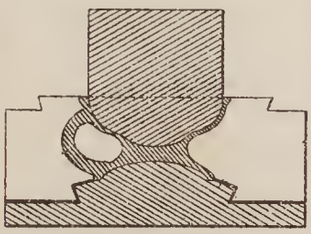
92,925, P. W. DERHAM. PAPER-FILES.



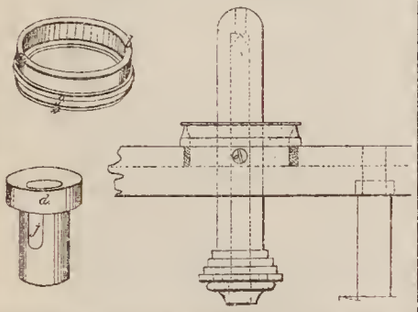
3,555, J. S. ATTERBURY.
T. B. ATTERBURY.
HOLLOW GLASS-WARE.



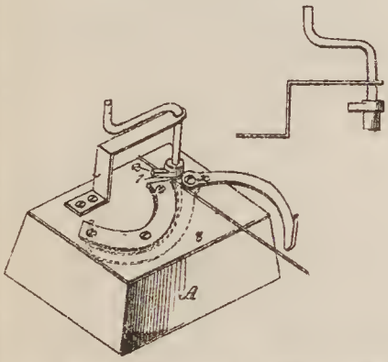
3,556.
J. S. ATTERBURY.
T. B. ATTERBURY.
HOLLOW GLASS-WARE.



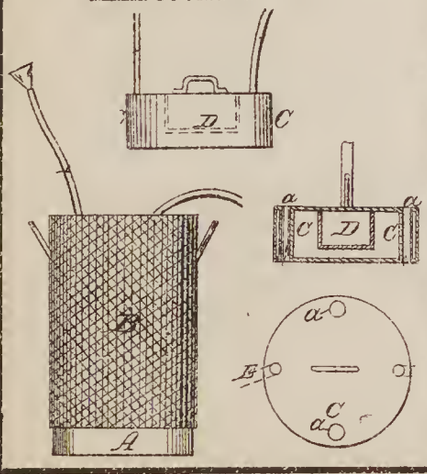
3,557, JOHN BIRKENHEAD.
RING FOR SPINNING.



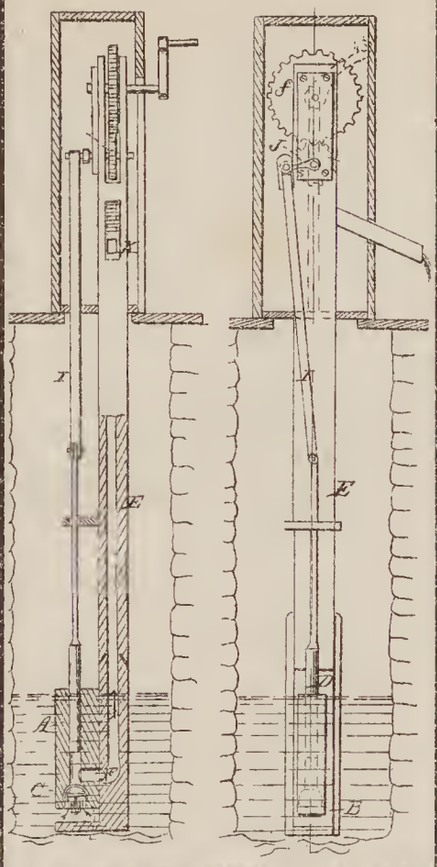
3,558, COLUMBUS COLEMAN.
RAKE-TOOTH BENDER.



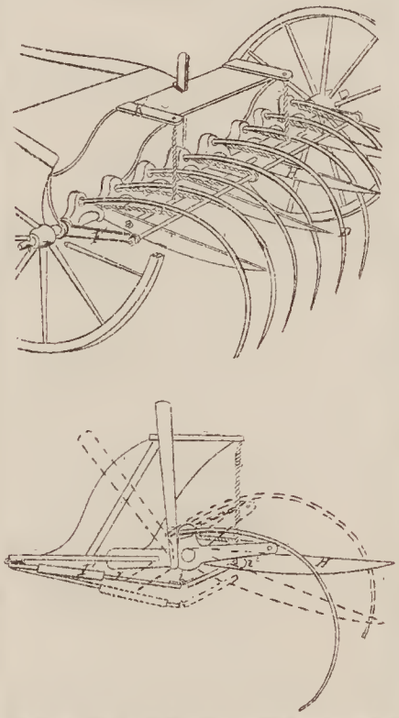
3,559, LEWIS T. HAWLEY.
MILK-COOLERS.



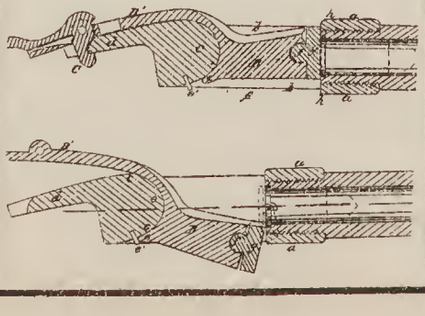
3,560, D. P. HENRY.
PUMPS.

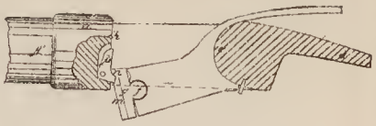


3,561, ADAM R. REESE.
HORSE-RAKES.

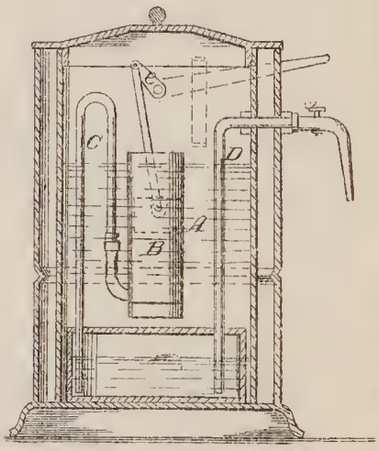


3,562, B. S. ROBERTS.
BREECH-LOADING FIRE-ARMS.

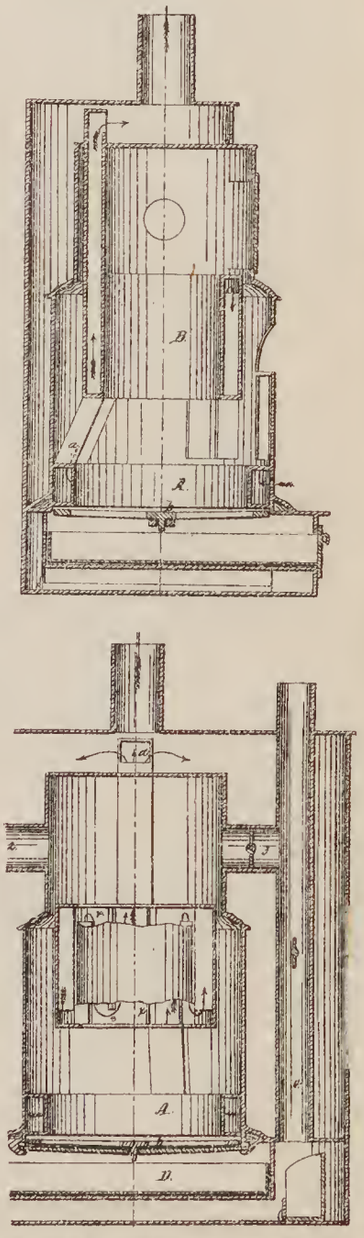




3,563. E. C. THOMPSON.
SODA-FOUNTAINS.



3,564.
R. B. VARDEN.
COAL-STOVE.



ILLUSTRATIONS OF PATENTS

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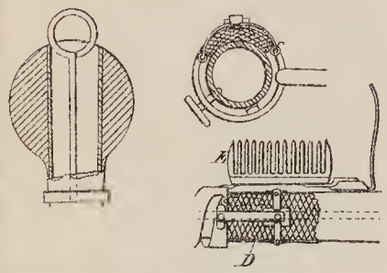
JULY 27, 1869.

92,926, MRS. MARCIA ADKINS.
HAIR-CURLING APPARATUS.



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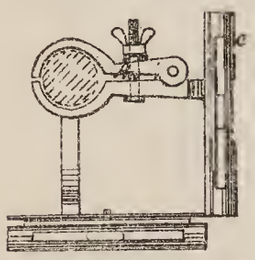
BORING-INSTRUMENTS.
GUIDE-ATTACHMENT FOR



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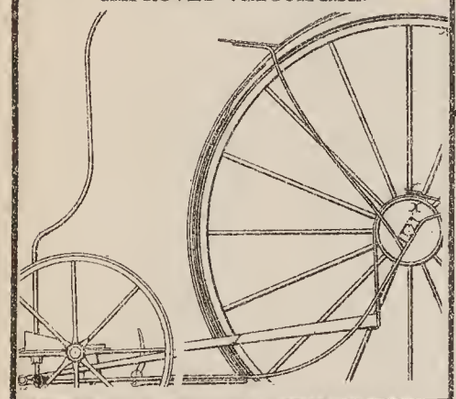
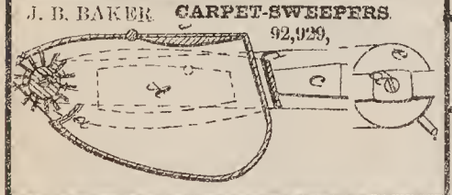
IMPROVED VELOCIPEDE.



J. B. BAKER. **CARPET-SWEEPERS.**
92,929,



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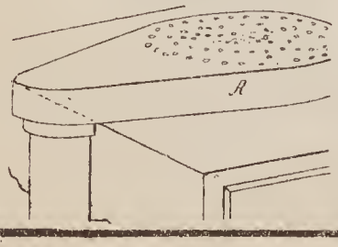
TOBACCO-BOXES.

92,931, A. L. BOGART.
GAS-HEATERS.



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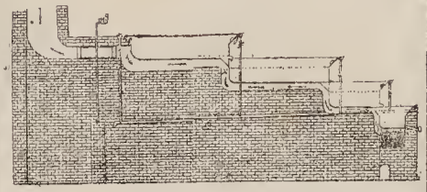
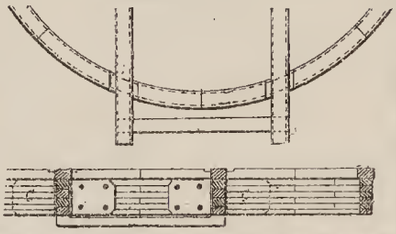
CHS. ESCUDIER.
SUGAR-BOILING APPARATUS.



92,933, JOHN W. BOWERS.
MANUFACTURE OF BRAID.

92,934, EDWIN D. BRAINARD.
PRESERVING THE AROMATIC PRINCIPLE OF HOPS.

92,935, POTTO BROWN.
BATEMAN BROWN.
MILLERS' STAFF.



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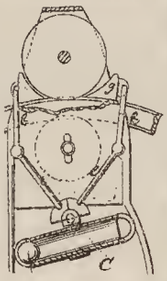
GEORGE BROWNLEE.
PEDECYCLE.



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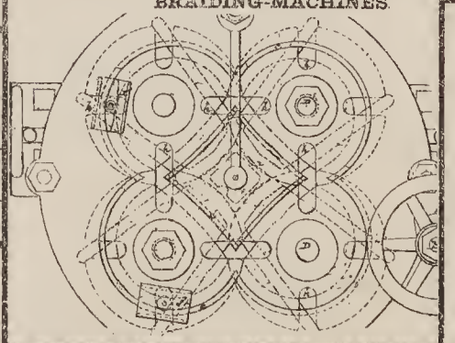
MEDICAL COMPOUND.

92,938, JAMES D. BUTLER.
BRAIDING-MACHINES.



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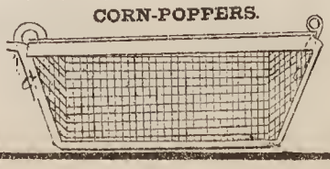
CORN-POPPERS.



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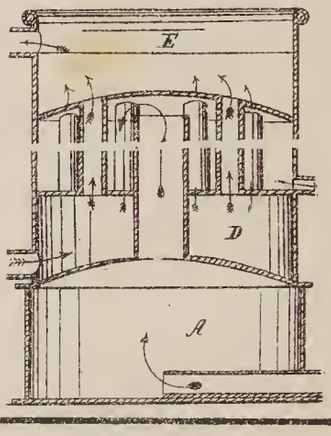
BOBBINS FOR SPINNING.

92,941, T. J. DEAN.
CONDENSER FOR STILLS.



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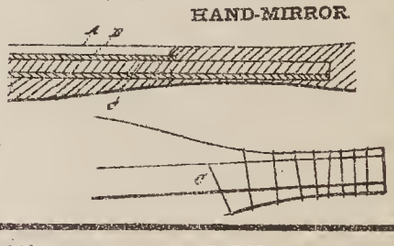
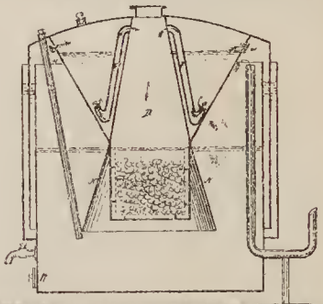
HAND-MIRROR.



92,943, CLEAVELAND F. DUNDERDALE.
MACHINE FOR GENERATING AND CARBURETTING GAS.



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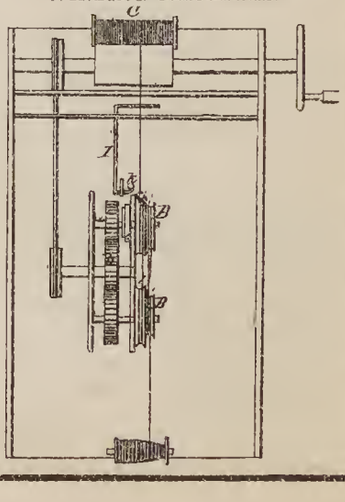

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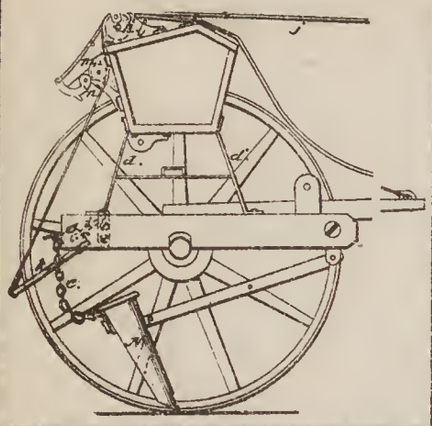
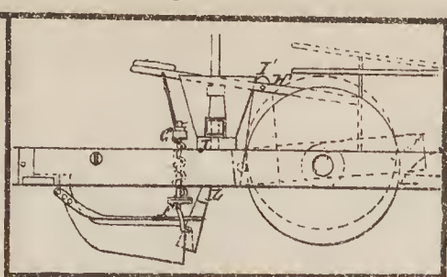
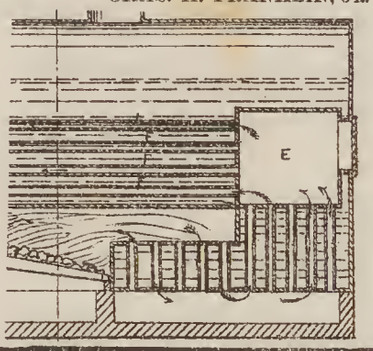
JOSEPHUS EASTERDAY.
J. B. CROWELL.

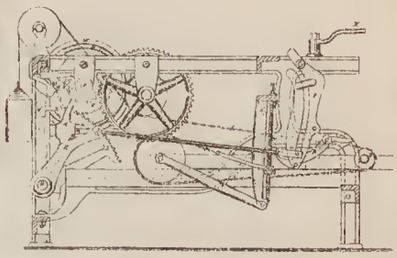




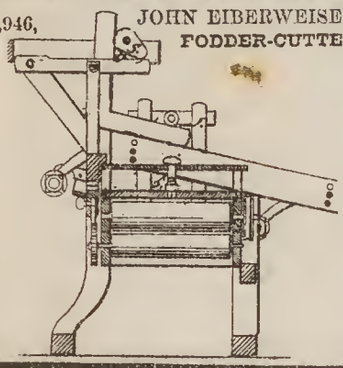
92,952, **STEAM-GENERATORS.**
CHAS. H. FRANKLIN, JR.



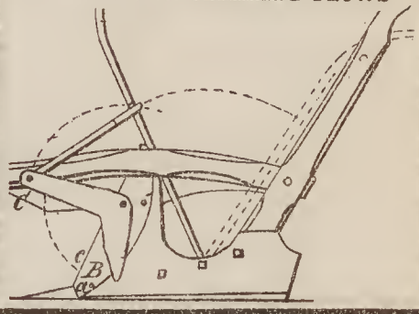
92,958, C. J. GREENE.
MULES FOR SPINNING.



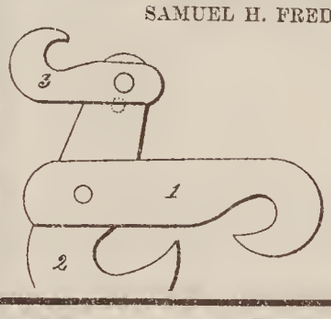
92,946, JOHN EIBERWEISER.
FODDER-CUTTER.



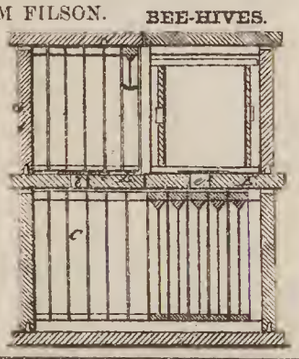
92,959, RICHARD GROOM.
DEVICE FOR CLEANING PLOWS



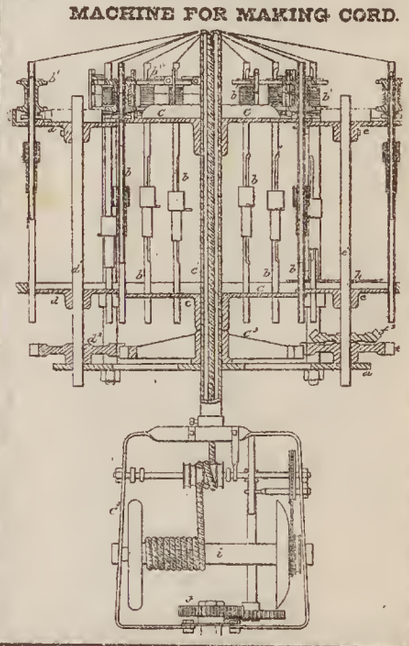
92,953, **THREE-HORSE CLEVIS.**
SAMUEL H. FREDERICK.



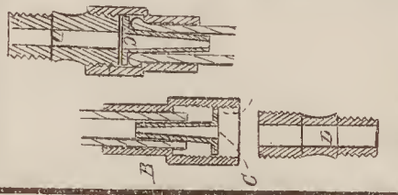
92,947,
HIRAM FILSON. **BEE-HIVES.**



92,960, WILLIAM GUEST.
MACHINE FOR MAKING CORD.

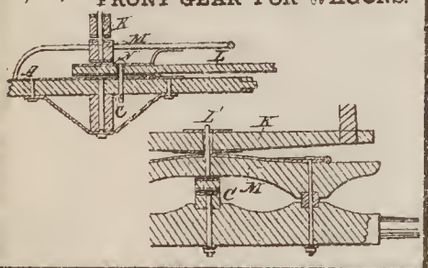


92,954, J. H. GEORGE.
HOSE-COUPLING.

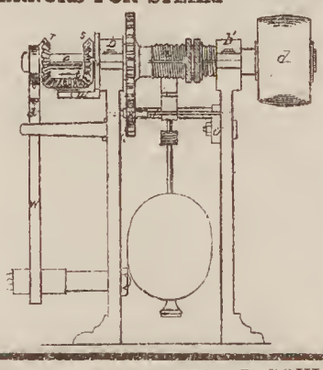


92,955, **MATCH-SAFE.** JOHN GIBBS.

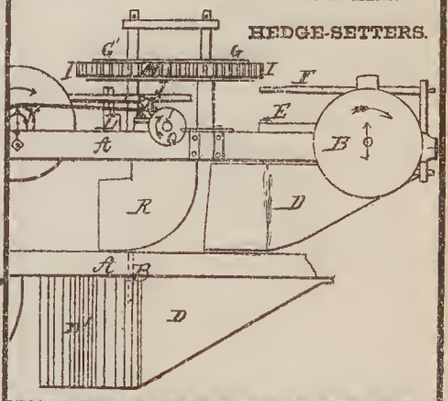
A. FINLEY.
92,948, **FRONT GEAR FOR WAGONS.**



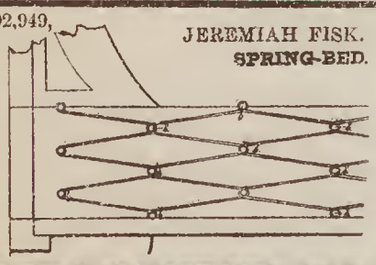
92,956, THOMAS GILL
GOVERNORS FOR STEAM ENGINERY.



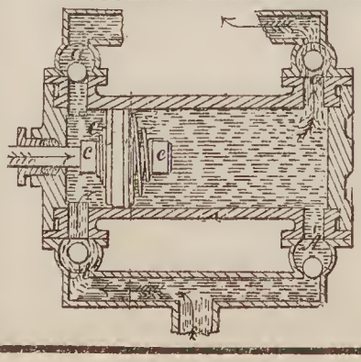
92,961, JOHN H. HOLBERT.
HEDGE-SETTERS.



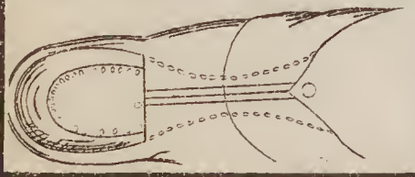
92,949, JEREMIAH FISK.
SPRING-BED.



92,957, ROSCOE J. GOULD.
STEAM-PUMPING ENGINES.



92,950, WM. S. FOSTER. **SHOES.**

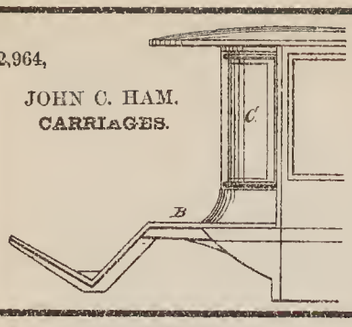


92,962, JAMES P HALL.
COMPOUND FOR CUTTING AND POLISHING.

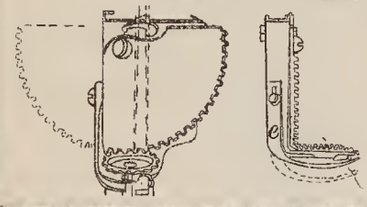
92,963, ISRAEL C. HALL.
WHIFFLETREES.

92,951, DANIEL D. FRANKLIN.
CORN AND SEED-PLANTERS.

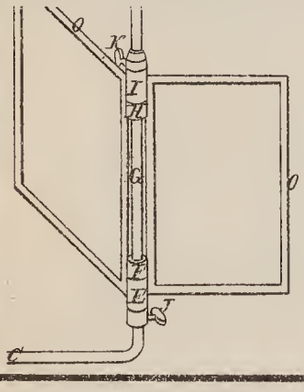
92,964, JOHN C. HAM. CARRIAGES.



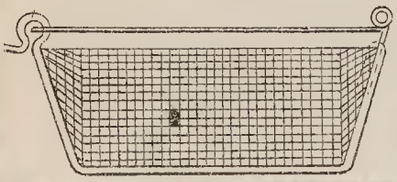
92,965, ALEXANDER HARROUN, JR. SEWING-MACHINE FOR WORKING BUTTON-HOLES.



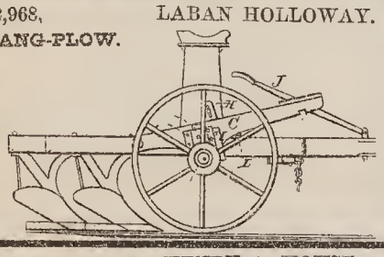
92,966, OTTO HENNIG. STREET-REFLECTORS FOR WINDOWS.



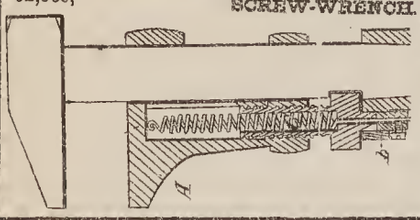
BENJ. B. HILL. JOHN R. HILL. 92,967, CORN-POPPER.



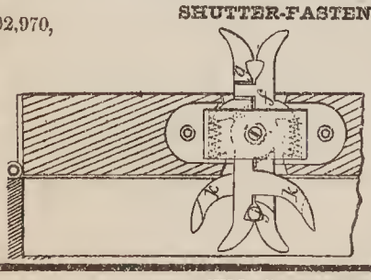
92,968, LABAN HOLLOWAY. GANG-PLOW.



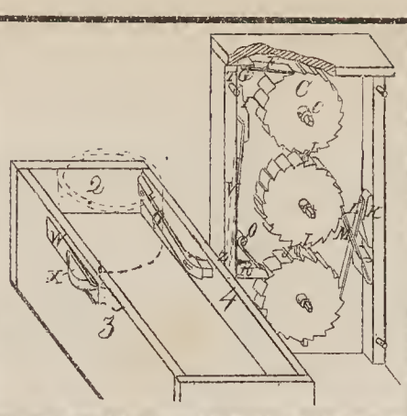
92,969, HENRY A. HOUSE. SCREW-WRENCH.



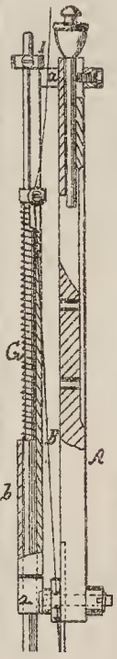
LEONARD D. HOWARD. SHUTTER-FASTENER. 92,970,



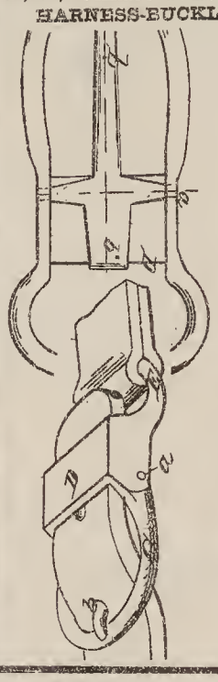
92,971, WM. C. HOWARD. GRAIN-REGISTERS.



THOMAS HUCKANS. J. WESLEY CARHART. 92,972, NEEDLE-PROTECTOR FOR SEWING-MACHINES.

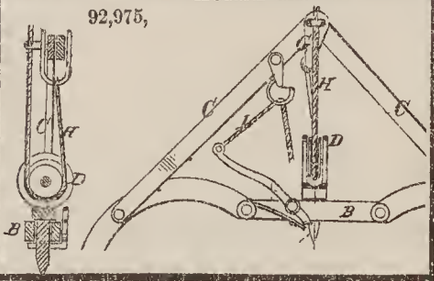


92,973, JAMES IVES. HARNESS-BUCKLE.

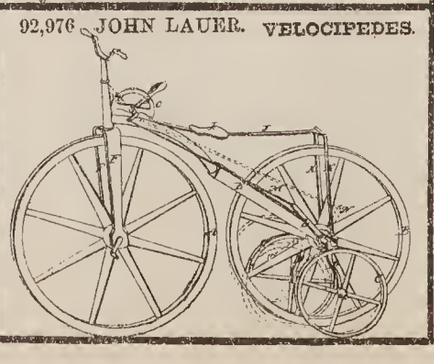


92,974, WILLIAM H. JACKSON. BACK FOR FIRE-PLACES.

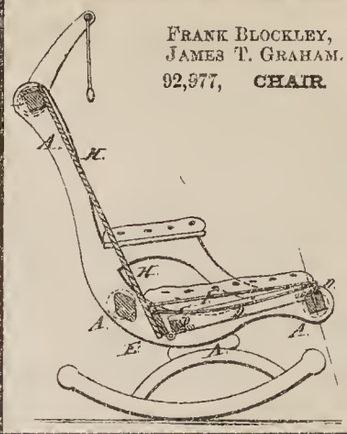
THOS. C. KELLY. HORSE HAY-FORKS. 92,975,



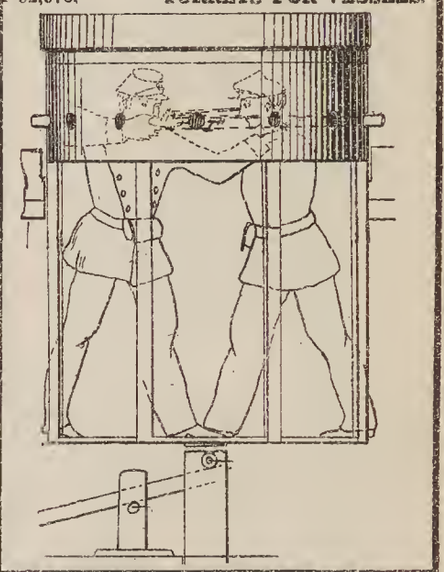
92,976 JOHN LAUER. VELOCIPEDES.



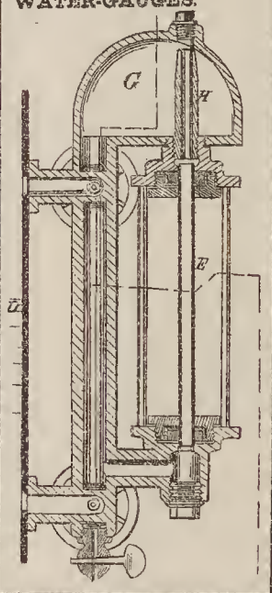
FRANK BLOCKLEY, JAMES T. GRAHAM. 92,977, CHAIR.



JOHAN LINNEMANN. 92,978, TURRETS FOR VESSELS.



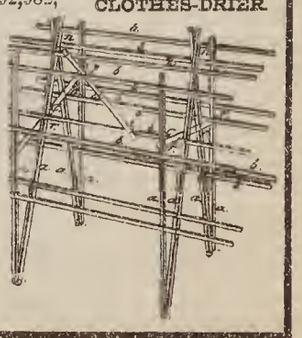
DAVID LITHGOW. 92,979, WATER-GAUGES.



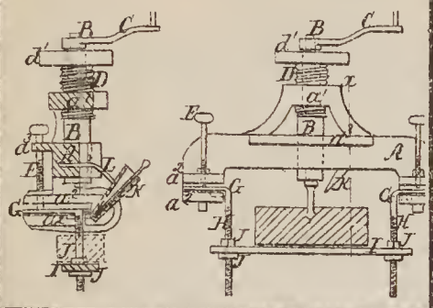
GEORGE S. LOVELL. MARY F. LOVELL. 92,980, INSTRUMENTS FOR TREATING DISEASED ORIFICES.

WM. J. LYND. EXTRACTING IRON AND 92,981, OTHER OXIDES FROM CLAY.

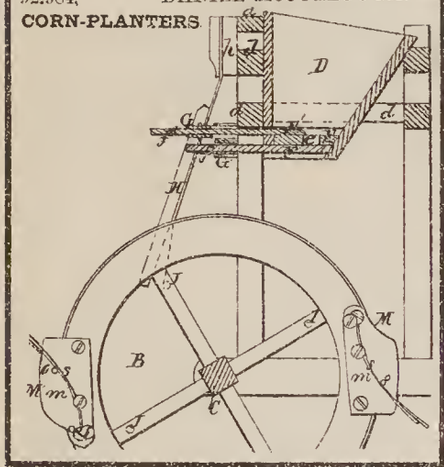
HENRY G. MACK 92,982, CLOTHES-DRIER.



92,983, WILLIAM C. MARR.
COMBINED DRILL AND SAW-GUMMER.

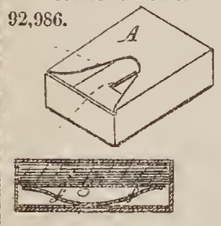


92,984, DANIEL McCULLOUGH.
CORN-PLANTERS.

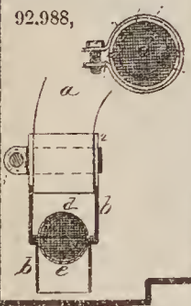


92,985, THOMAS McKINLEY.
PLASTERING-MACHINE.

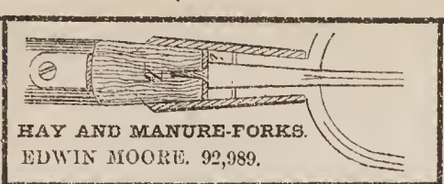
GEO. V. METZEL.
CARD-CASES.
92,986.



DANL. MOORE.
EDWIN MOORE.
FILTERING-TUBES.
92,988,

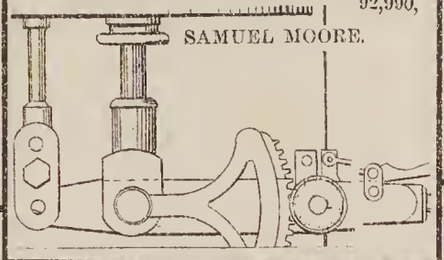


ELIE MONEUSE.
92,987, LOUIS DUPARQUET.

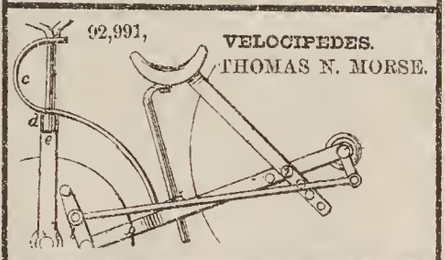


HAY AND MANURE-FORKS.
EDWIN MOORE. 92,989.

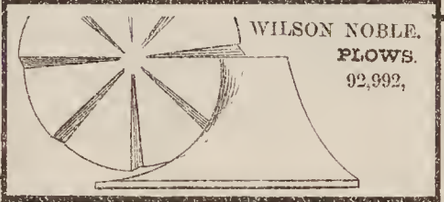
THROTTLE-VALVE GEAR. 92,990,
SAMUEL MOORE.



92,991, **VELOCIPEDES.**
THOMAS N. MORSE.

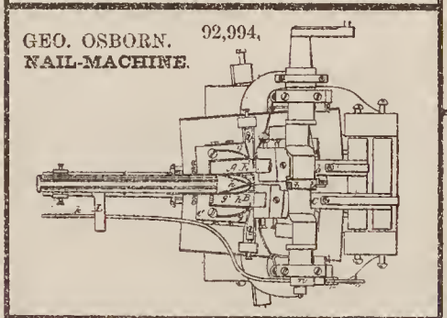


WILSON NOBLE.
PLOWS.
92,992,

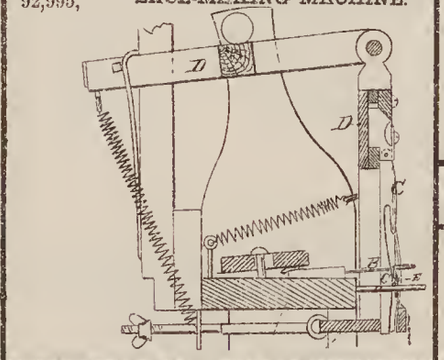


92,993, GEORGE OAKLEY.
COMPOSITION FOR CURING CORNS.

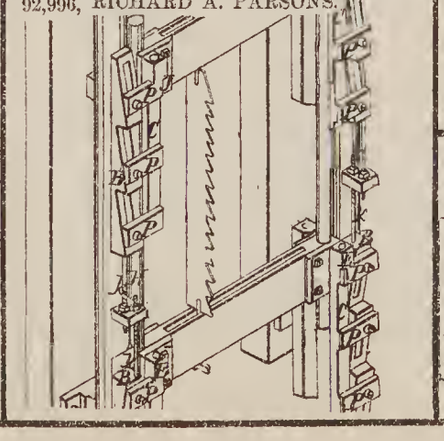
GEO. OSBORN. 92,994,
NAIL-MACHINE.



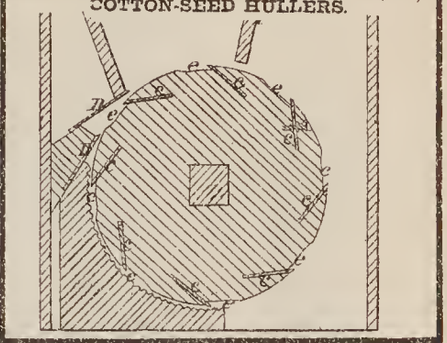
GEORGE OSBORNE.
92,995, **LACE-MAKING MACHINE.**



GUIDES FOR GANG-SAW GATES.
92,996, RICHARD A. PARSONS.

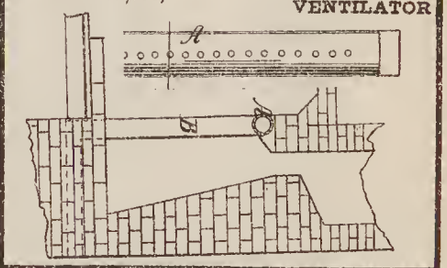


GEORGE H. PEABODY. 92,997,
COTTON-SEED HULLERS.

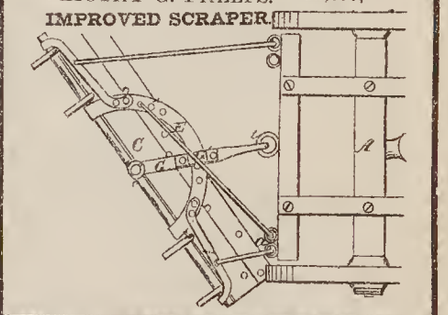


JOHN H. PEAKE. **ZINCKING IRON.**
92,998,

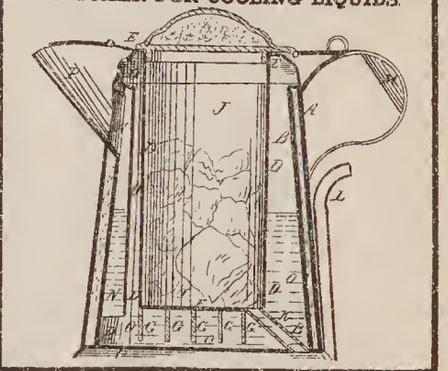
92,999, J. J. PEMBERTON.
VENTILATOR.



TIMOTHY G. PHELPS. 93,000,
IMPROVED SCRAPER.

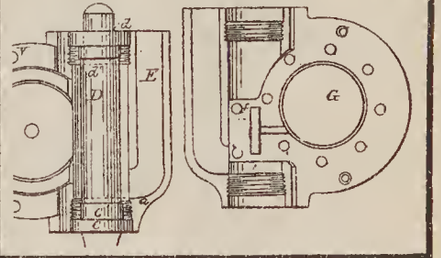


93,001, HERMAN PIETSCH.
PITCHER FOR COOLING LIQUIDS.

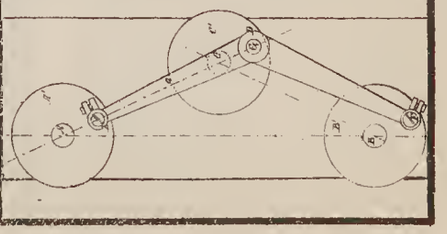


93,002, JOEL PUTNAM.
FINISHING SPLIT LEATHER.

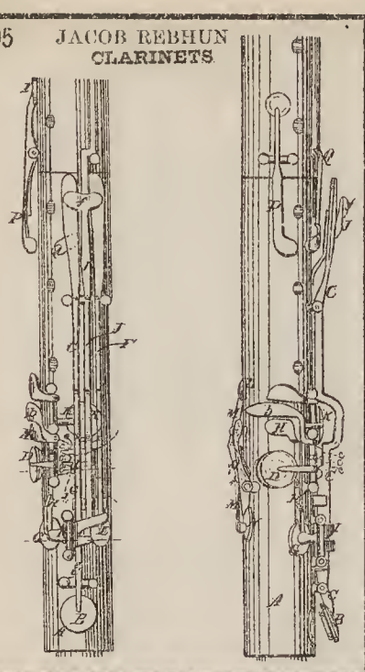
H. F. READ. **MOULDS FOR CASTING CYLINDERS AND DIAL-BOXES** 93,003,



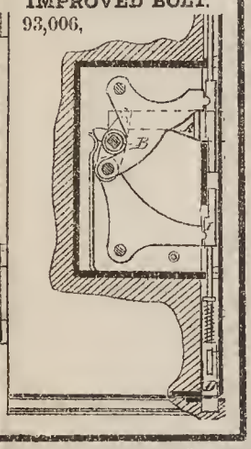
93,004, **MECHANICAL MOVEMENT.**
NELSON READ.



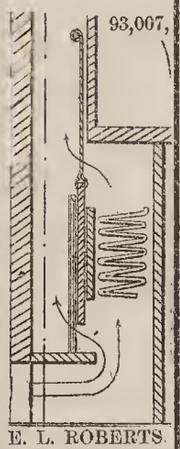
93,005 JACOB REBHUN
CLARINETS.



E. L. ROBERTS.
IMPROVED BOLT.
93,006,

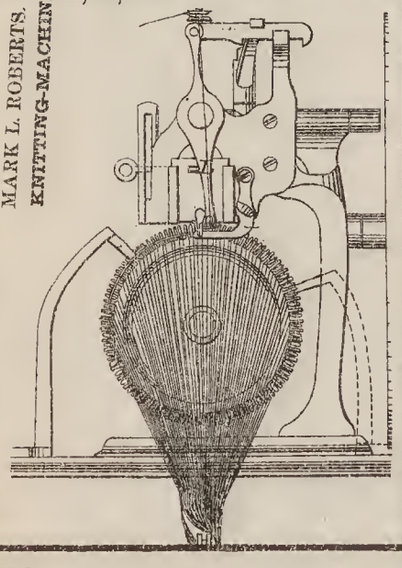


93,007,

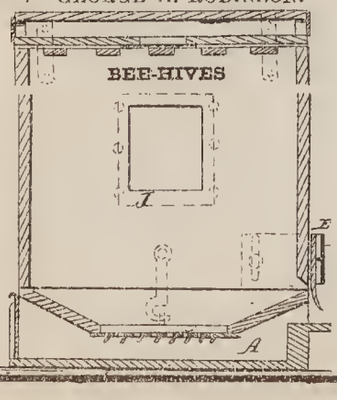


E. L. ROBERTS.
VENTILATING-APPARATUS.

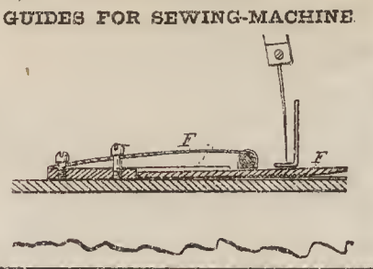
MARK L. ROBERTS.
KNITTING-MACHINE
93,008,



93,009, GEORGE A. ROBINSON.
BEE-HIVES

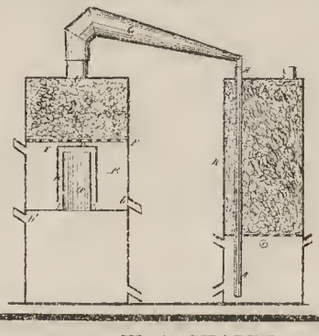


93,010, ANNA P. ROGERS.
GUIDES FOR SEWING-MACHINE.

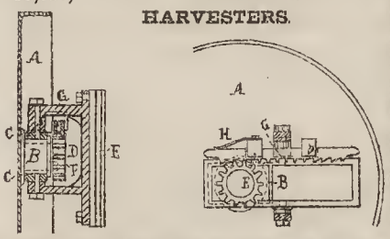


93,011, G. D. ROWELL.
MOULD-BOARD AND COULTER.

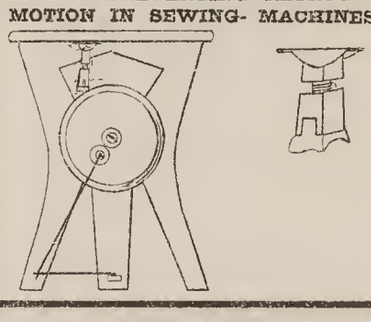
93,012, FRANCIS SCHLEIFER.
MANUFACTURING VINEGAR.



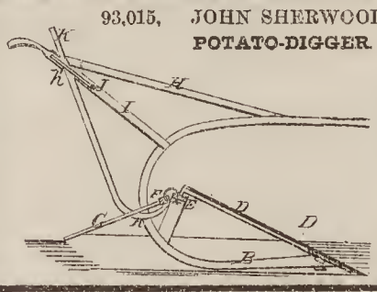
93,013, W. A. SHARPE.
HARVESTERS.



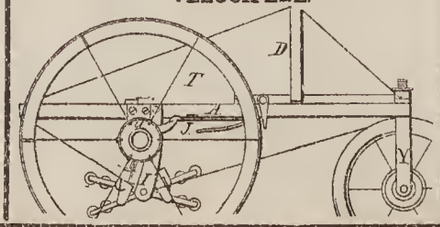
WESLEY SHERMAN.
93,014, GILES BISHOP.
STOP FOR PREVENTING RETROGRADE MOTION IN SEWING- MACHINES.



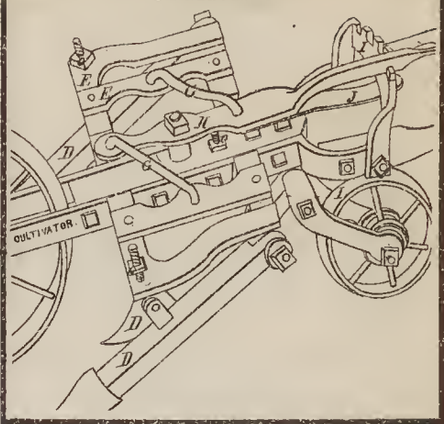
93,015, JOHN SHERWOOD.
POTATO-DIGGER.



93,016, DAVID R. SMITH.
VELOCIPEDE.

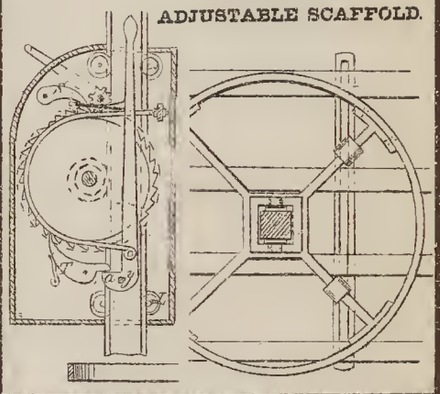


93,017, WALTER SMITH.
CULTIVATOR.

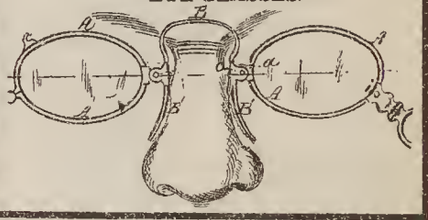


93,018, HIRAM STAPLES.
COMPOSITION FOR PAVEMENTS, ROOFING, &c.

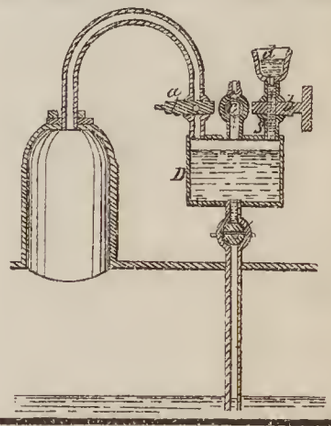
93,019, FRANCIS STEIN.
H. HAERING.
ADJUSTABLE SCAFFOLD.



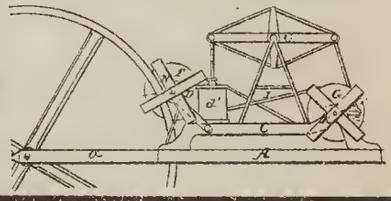
93,020, RICHD. STRAUBEL.
EYE-GLASSES.



93,021, JOHN BLAKE TARR.
STEAM-GENERATOR FEED-DEVICES.



93,022, CEBRA L. TAYLOR.
TOY-HOOP.



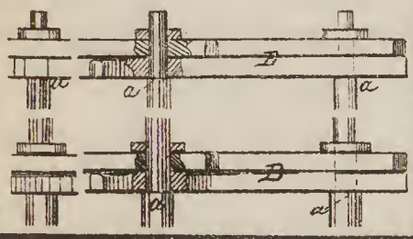
93,023, GEO. H. TODD.
BREECH-LOADING FIRE-ARMS.

93,024. WM. R. WALKER.

FOUNTAIN-PENS.

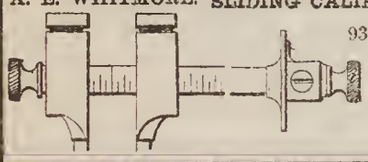
ELIAS WERDEN. CLOTHES-RACK.

93,025,



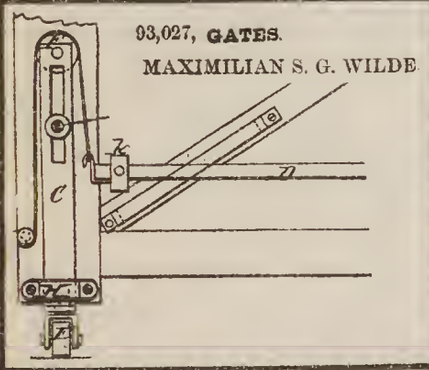
A. E. WHITMORE. SLIDING CALIPERS.

93,026,



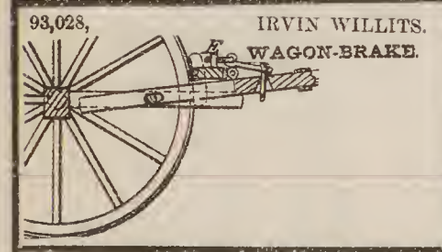
93,027, GATES.

MAXIMILIAN S. G. WILDE.



93,028, IRVIN WILLITS.

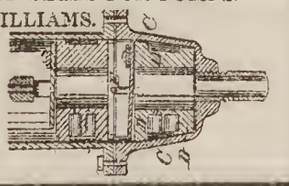
WAGON-BRAKE.



DETACHABLE FOOT-VALVES AND SEATS FOR PUMPS.

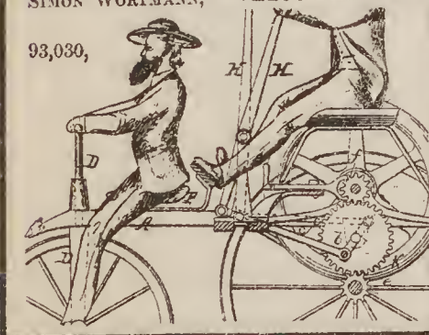
JOHN W. WILLIAMS.

93,029,



SIMON WORTMANN, VELOCIPEDES.

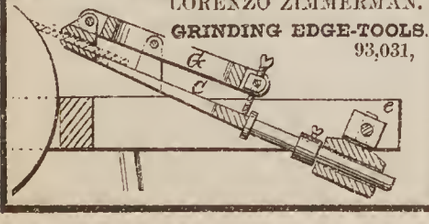
93,030,



LORENZO ZIMMERMAN.

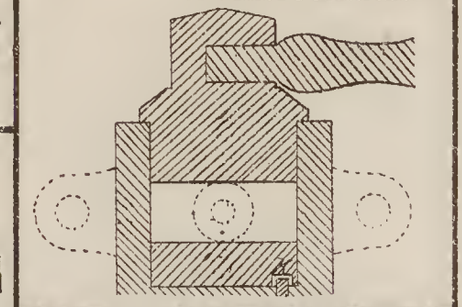
GRINDING EDGE-TOOLS.

93,031,



93,032, JOHN L. AGNEW.

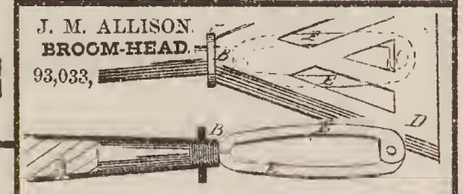
APPENDAGE TO BLAST-PIPES OF BLAST-FURNACES.



J. M. ALLISON.

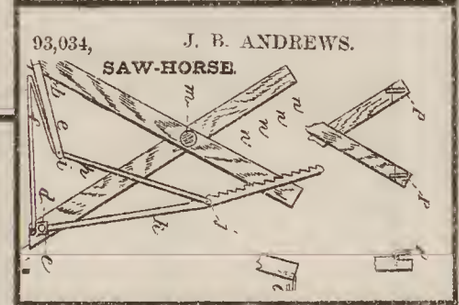
BROOM-HEAD.

93,033,



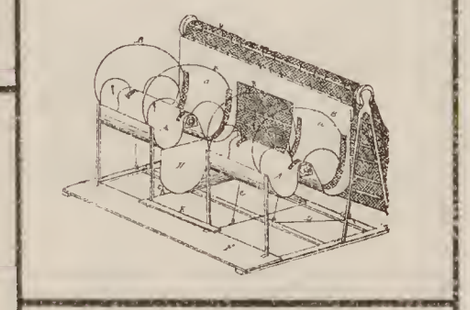
93,034, J. B. ANDREWS.

SAW-HORSE.



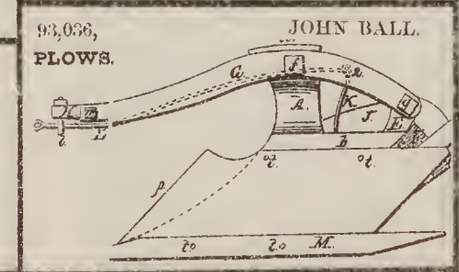
93,035, JOHN BAKER.

GRAIN-BINDERS.



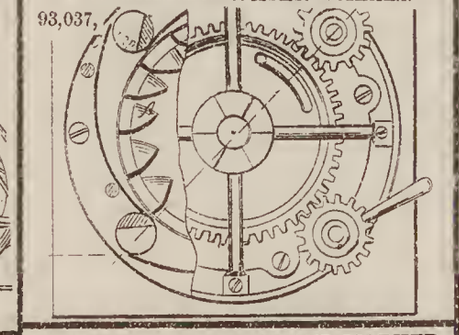
93,036, JOHN BALL.

PLOWS.



S. H. BARNES. WATER-WHEELS.

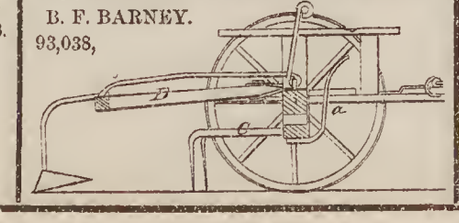
93,037,

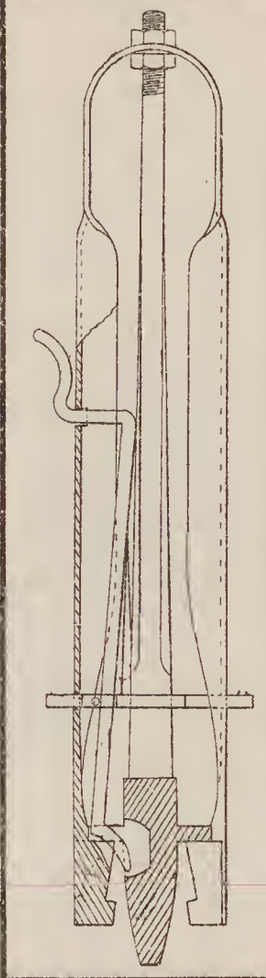


COMBINED HARROW AND MARKER.

B. F. BARNEY.

93,038,



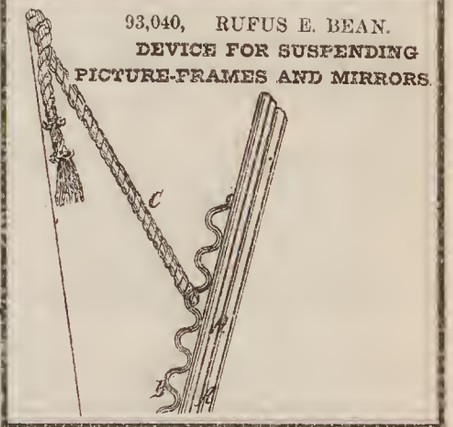


TOOL FOR FORMING LIPS ON THE NECKS OF BOTTLES.

THOMAS BARRETT. 93,039,

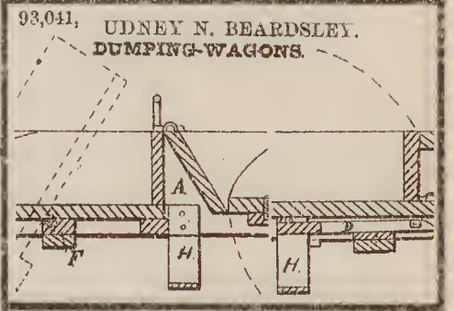
93,040, RUFUS E. BEAN.

DEVICE FOR SUSPENDING PICTURE-FRAMES AND MIRRORS.



93,041, UDNEY N. BEARDSLEY.

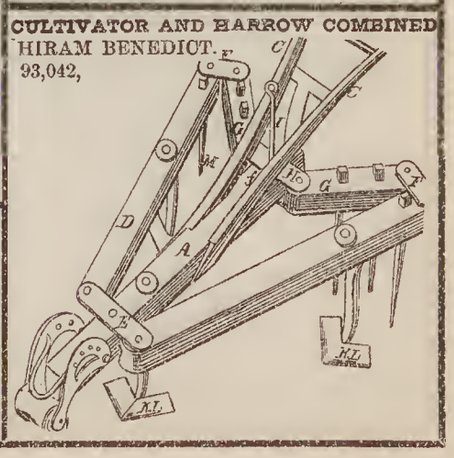
DUMPING-WAGONS.



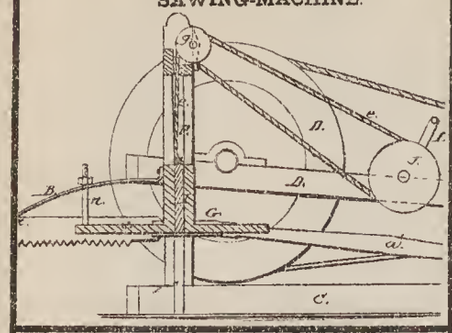
CULTIVATOR AND HARROW COMBINED

HIRAM BENEDICT.

93,042,

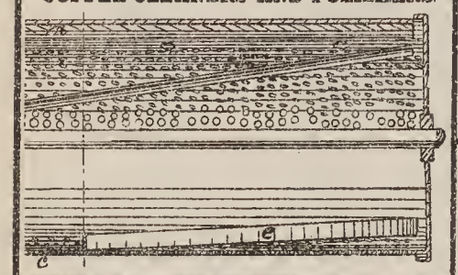


93,043, GEORGE W. BENSON.
FRANK F. DOLAND.
SAWING-MACHINE.

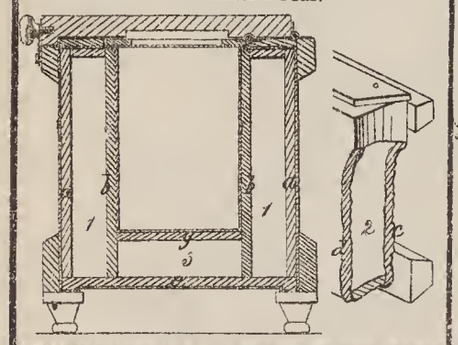


93,044, J. W. BRADY.
COMPOUND FOR DESTROYING INSECTS.

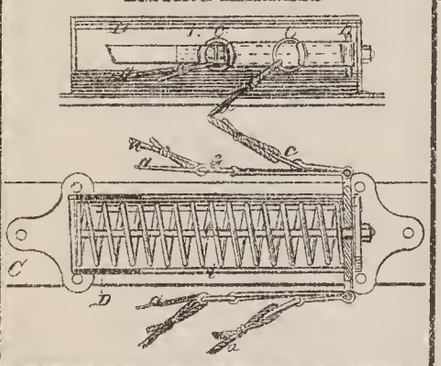
93,045, BENJAMIN BEST.
COFFEE-CLEANERS AND POLISHERS.



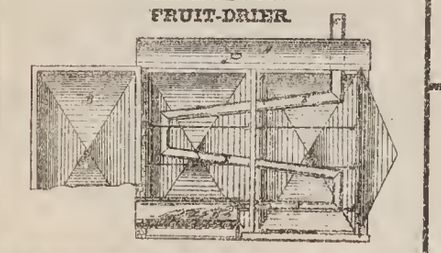
93,046, EDWIN D. BRAINARD.
REFRIGERATORS.



93,047, BENJ. F. BREWSTER.
BITTING-HARNESS.

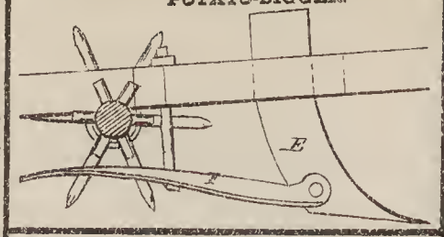


93,048, JOSHUA W. BROOKS.
HENRY RUDOFF.
FRUIT-DRIER.

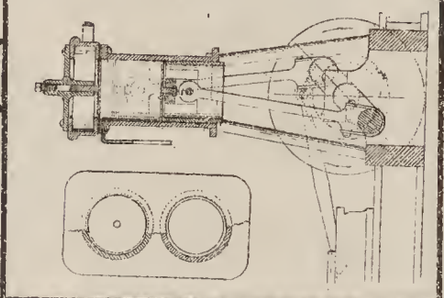


93,049, FRANCIS M. BUCKLES.
HARVESTER-RAKES.

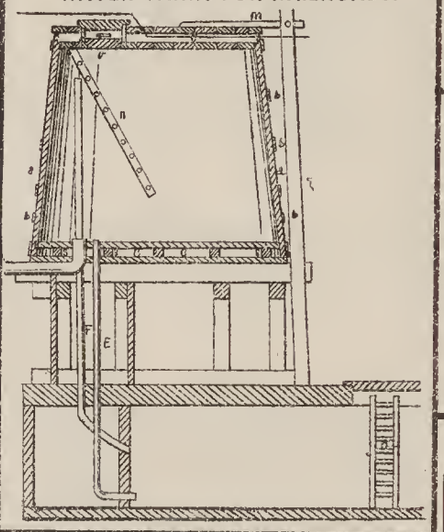
93,050, JOHN M. BURKE.
POTATO-DIGGER.



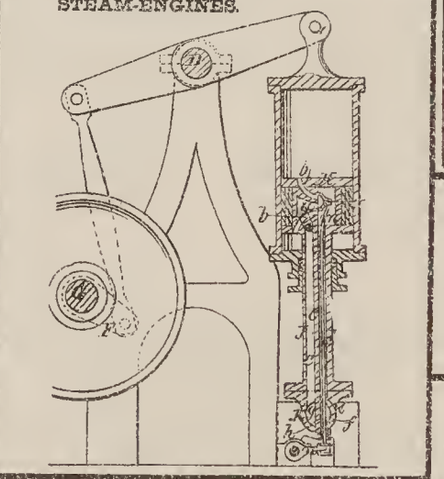
93,051, CHARLES BURLEIGH.
STEAM AND AIR-ENGINE.



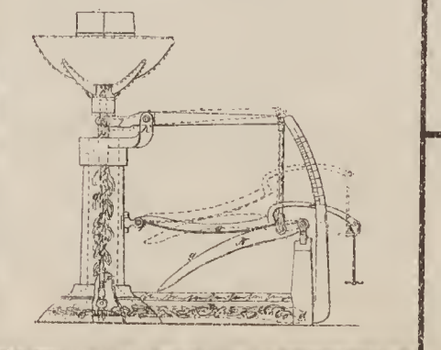
93,052 JOHN BURNHAM.
WATER-TANKS FOR RAILROADS.



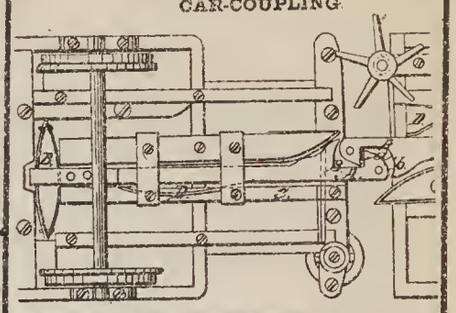
93,053, W. H. CARR.
STEAM-ENGINES.



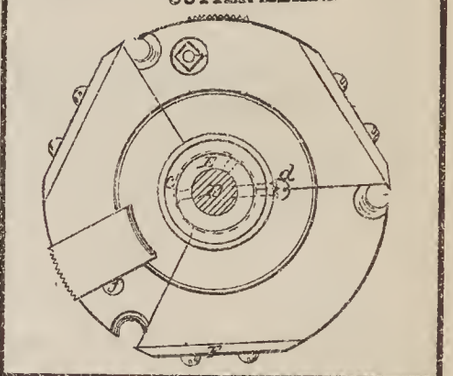
93,054, GEO. W. CHANDLER.
BALANCE-SCALES.



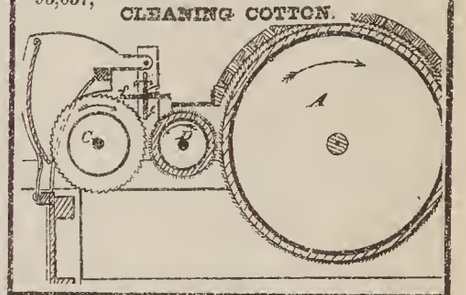
93,055, WILLIAM H. H. CLARK.
CAR-COUPLING.



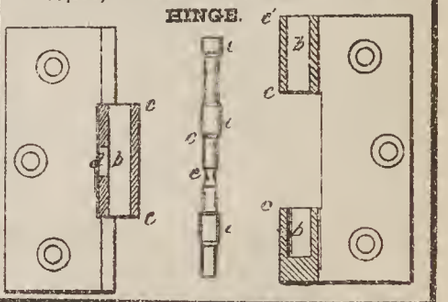
93,056, MILTON W. CLARK.
CUTTER-HEADS.



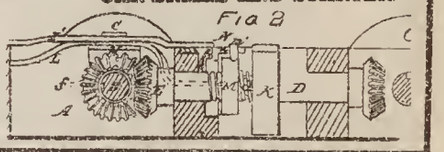
93,057, LEWIS T. CLEMENT.
CLEANING COTTON.



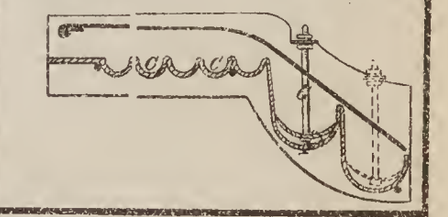
93,058, CALVIN COLE.
HINGE.



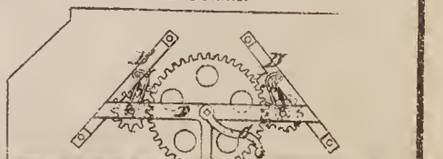
93,059, JAMES A. COLE.
CAR-BRAKE AND STARTER.



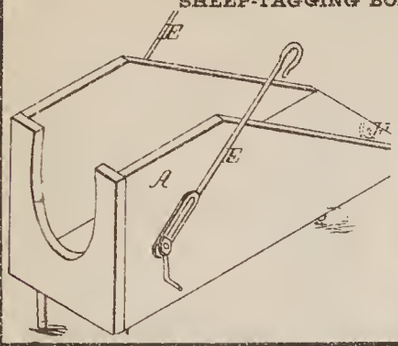
EZRA COLEMAN.
COLLECTING GOLD AND SILVER.
93,060, SLUICE AND BLANKET FOR



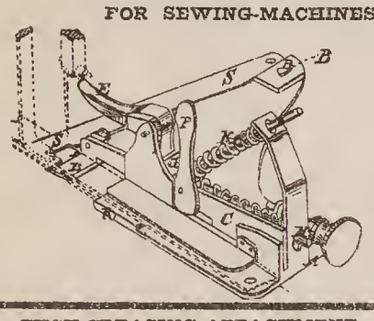
93,061, JOHN A. COZAD.
CHURNS.



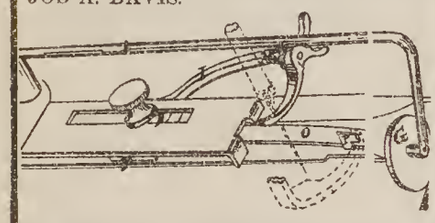
93,062, E. D. CRAWFORD.
SHEEP-TAGGING BOX.



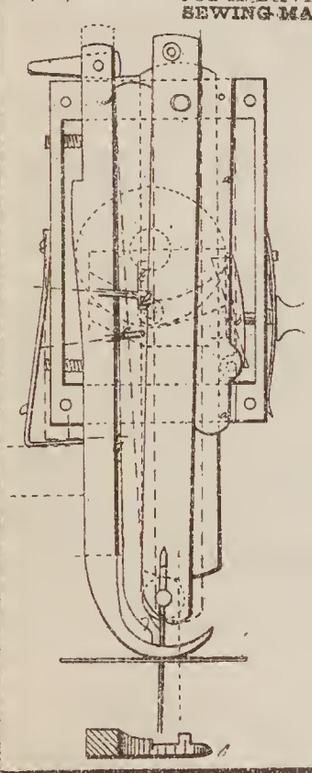
93,063, JOB A. DAVIS.
GATHERING-ATTACHMENT FOR SEWING-MACHINES.



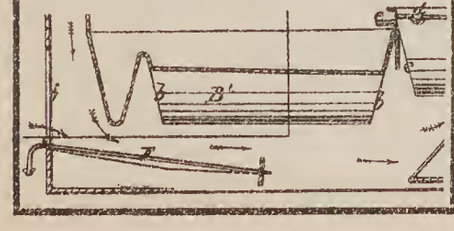
TUCK-CREASING ATTACHMENT
93,064, FOR SEWING-MACHINES.
JOB A. DAVIS.



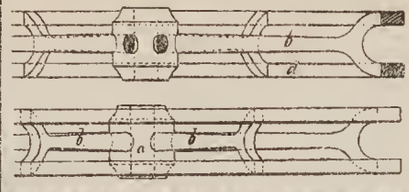
93,065, JOB A. DAVIS.
SEWING-MACHINE.



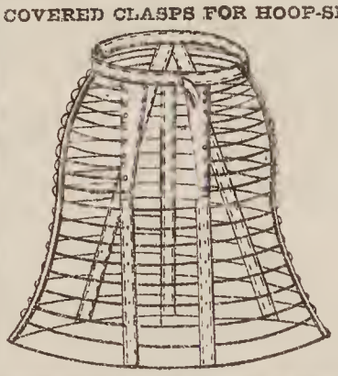
93,066, J. A. DAVIS.
APPARATUS AND PROCESS FOR THE MANUFACTURE OF SALT.



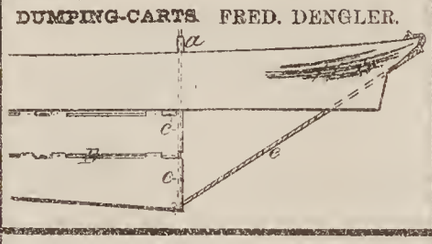
93,067, D. P. DAVIS.
CARRIAGE-WHEELS.



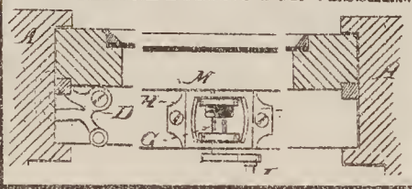
93,068, FRANCIS E. DAY.
COVERED CLASPS FOR HOOP-SKIRTS.



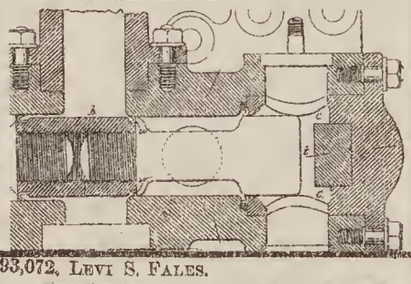
93,069,
DUMPING-CARTS. FRED. DENGLER.



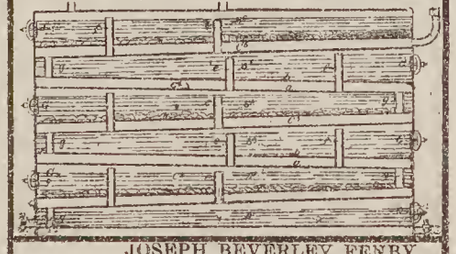
JONATHAN DILLON. 93,070,
CENTRE-BOARDS FOR VESSELS.



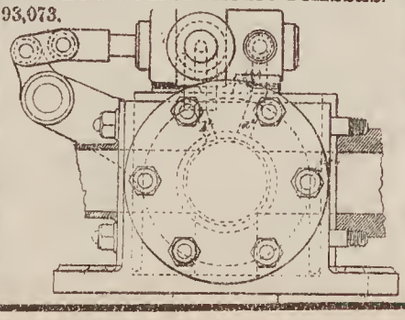
93,071, SASH-HOLDER. J. S. ELKINS.



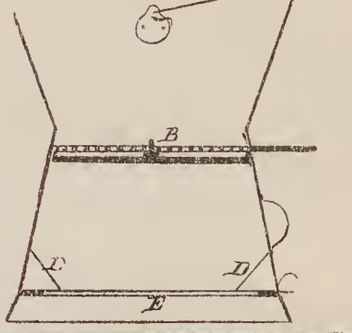
93,072. LEVI S. FALES.
APPARATUS FOR EVAPORATING AMMONIACAL AND OTHER LIQUIDS.



JOSEPH BEVERLEY FENBY.
VALVES FOR HYDRAULIC PRESSES.
93,073.

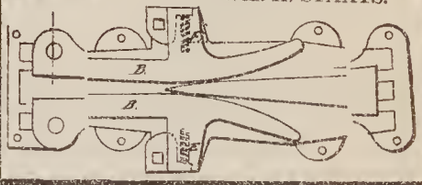


WM. C. FREDERICK.
93,074,
COAL-SIFTER.

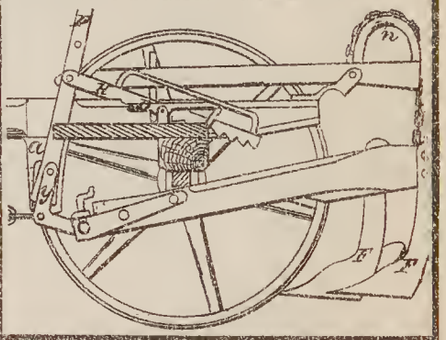


JOSEPH FRY. MANUFACTURE FROM
93,075, BANANAS AND PLANTAINS.

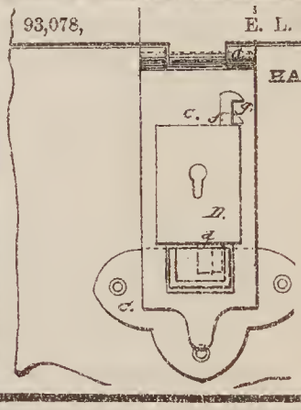
93,076, WM. B. GAGE.
RAILWAY-FROG. WM. H. STAATS.



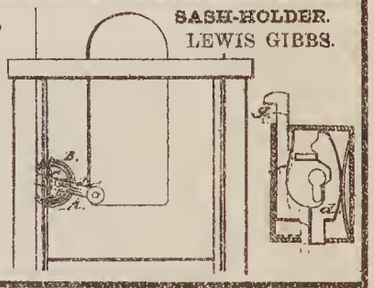
93,077,
CHARLES F. GAY. GANG-PLOWS.



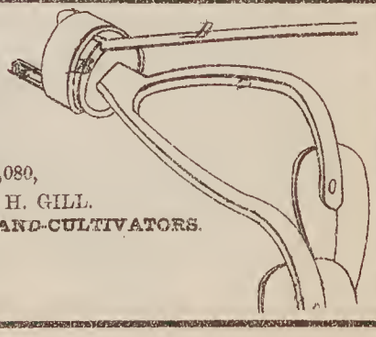
93,078, E. L. GAYLORD.
HASP-LOCKS.



93,079, SASH-HOLDER.
LEWIS GIBBS.

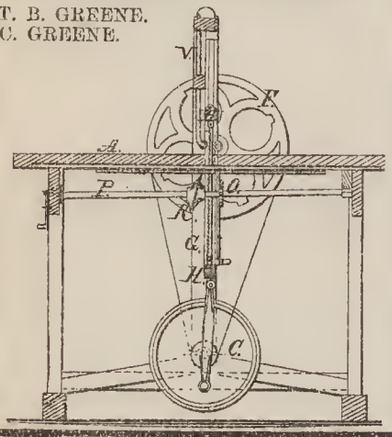


93,080,
J. H. GILL.
HAND-CULTIVATORS.



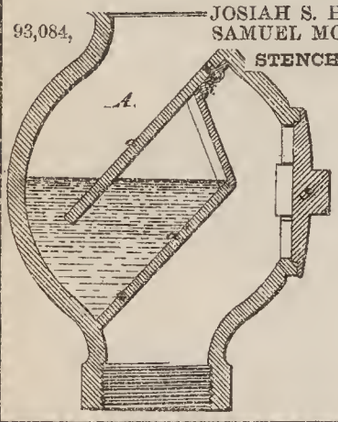
93,081, **BEE-HIVES.**
MILLER GRAHAM.

93,082, **SCROLL-SAWING MACHINE.**
T. B. GREENE.
C. GREENE.



93,083, N. C. GRIDLEY.
SHEET AND PLATE-IRON.

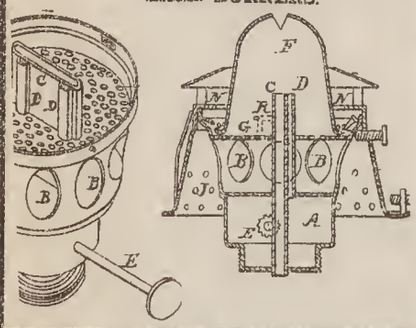
93,084, JOSIAH S. HALEY.
SAMUEL MORRELL.
STENCH-TRAPS.



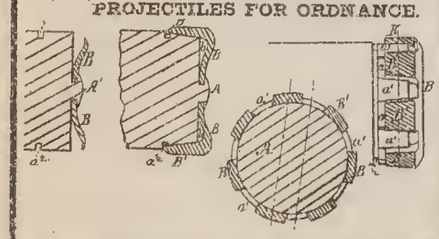
93,085, WILLIAM HILL.
METALLIC KEGS.

COMPOSITION DENTAL PLATE.
93,086, ASA HILL.

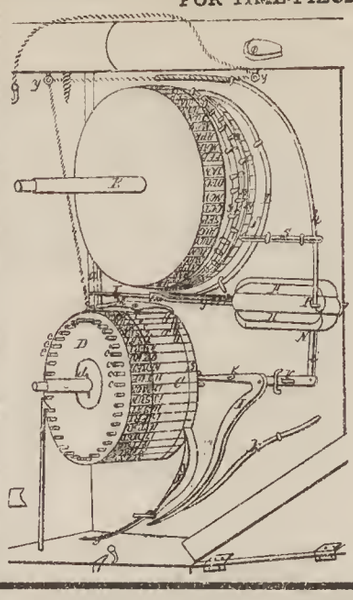
93,087, GEORGE HILLEGASS.
LAMP-BURNERS.



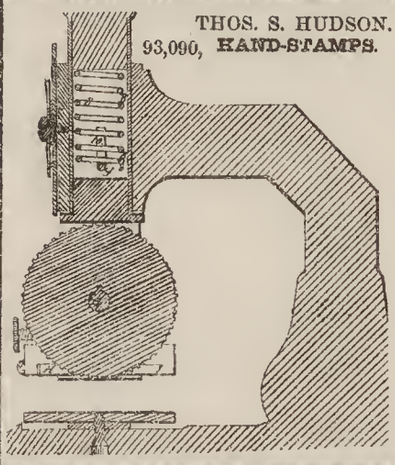
93,089, B. B. HOTCHKISS.
PROJECTILES FOR ORDNANCE.



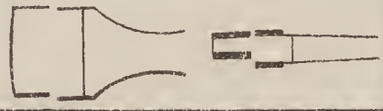
ERVIN HOMRIGHOUS. 93,088,
CALENDAR-MOVEMENT FOR TIME-PIECES.



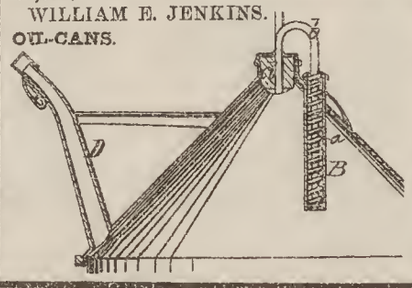
THOS. S. HUDSON.
93,090, **HAND-STAMPS.**



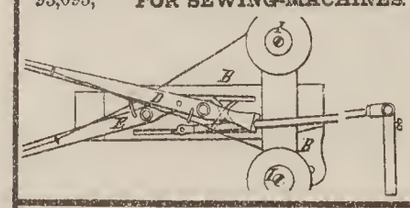
JABEZ JENKINS. **RAZOR-STROP.** 93,091,



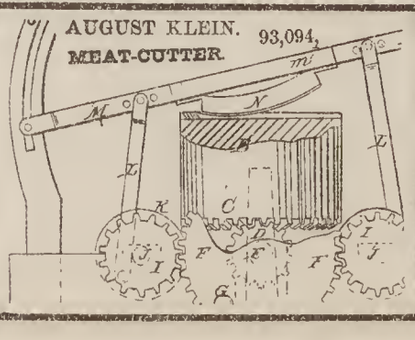
93,092,
WILLIAM E. JENKINS.
OIL-CANS.



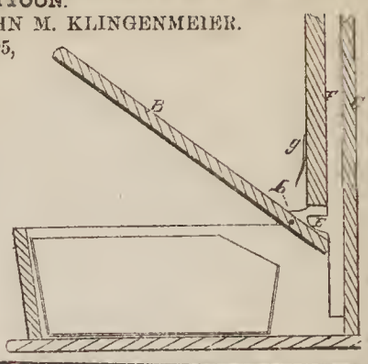
WILLIAM T. JOHNSTON.
EMBROIDERING-ATTACHMENT FOR SEWING-MACHINES.
93,093,



AUGUST KLEIN. 93,094,
MEAT-CUTTER.

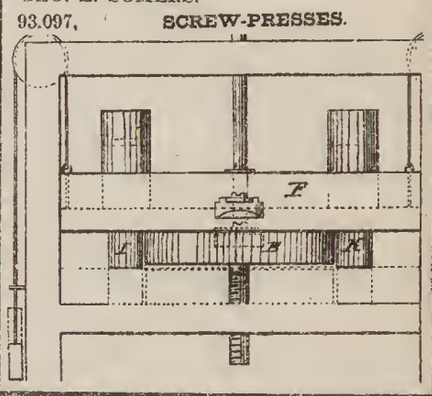


SPITTOON.
JOHN M. KLINGENMEIER.
93,095,

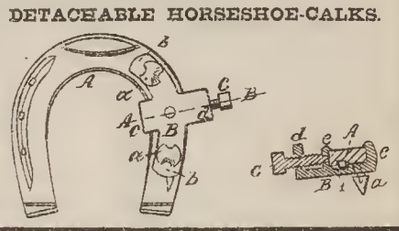


ALOIS KNEPPLER. 93,096,
SPRING-BED BOTTOM.

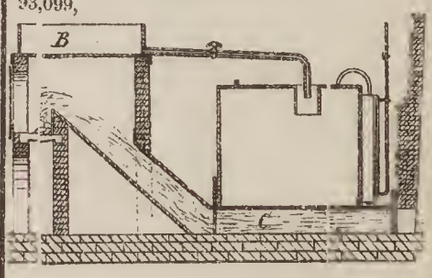
FREDERICK H. LAFORGE.
GEO. E. SOMERS.
93,097, **SCREW-PRESSES.**

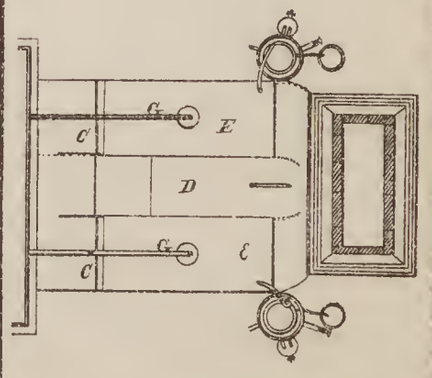


93,098, PERLEY LAFLIN.
DETACHABLE HORSESHOE-CALKS.

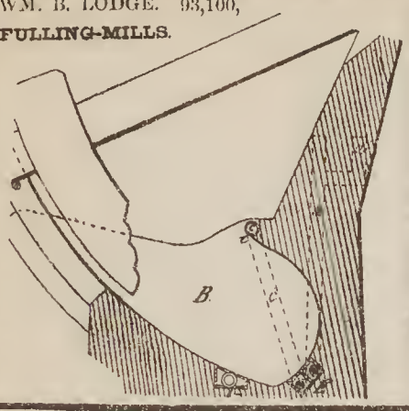


APPARATUS FOR MAKING BROMINE.
HERMAN LERNER.
93,099,

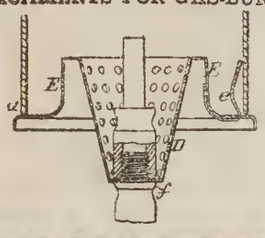




WM. B. LODGE. 93,100,
FULLING-MILLS.



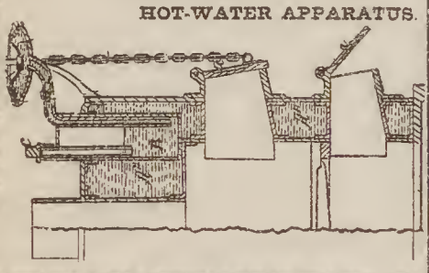
93,101 JOHN C. LOVE.
ATTACHMENTS FOR GAS-BURNERS.



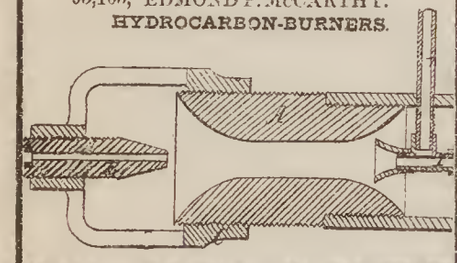
93,102, R. O. LOWREY.
RENDERING FABRICS WATER-REPELLENT.

93,103, JOHN MACINTOSH.
WILLIAM BOGGETT.
BOOTS AND SHOES.

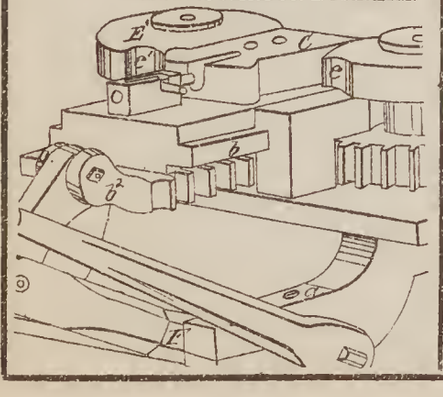
93,104, HUGH L. McAVOY.
HOT-WATER APPARATUS.



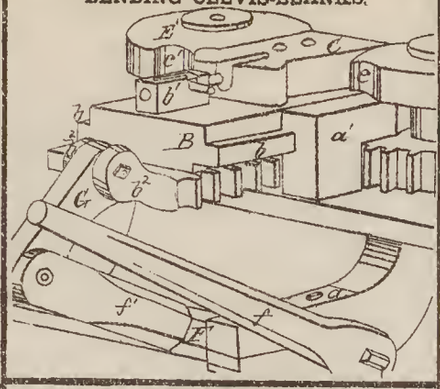
93,105, EDMOND P. McCARTHY.
HYDROCARBON-BURNERS.



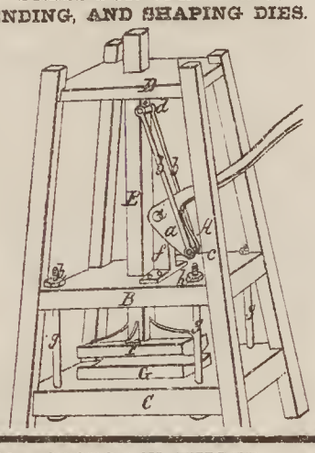
93,105, EDMOND P. McCARTHY.
HYDROCARBON-BURNERS.



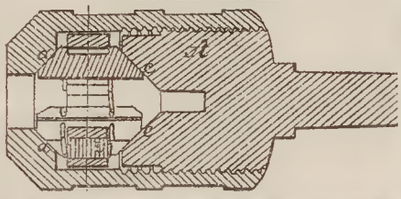
93,106, THOMAS MEIKLE.
BENDING CLEVIS-BLANKS.



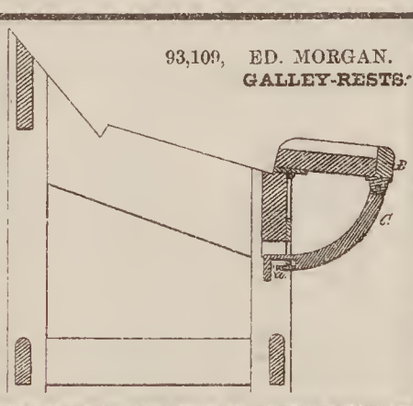
93,107, W. D. MENDENHALL.
PRESS FOR OPERATING, BENDING, AND SHAPING DIES.



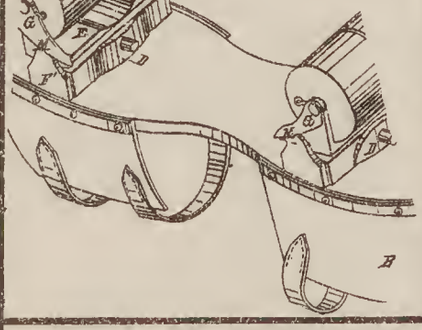
93,108, GEORGE W. MILLER.
DRILL-CHUCK.



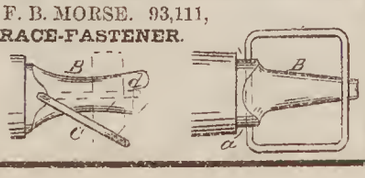
93,109, ED. MORGAN.
GALLEY-RESTS.



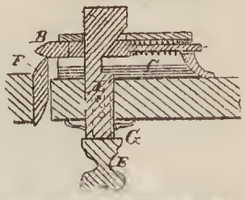
93,110, W. R. MORRIS.
ROLLER-SKATES.



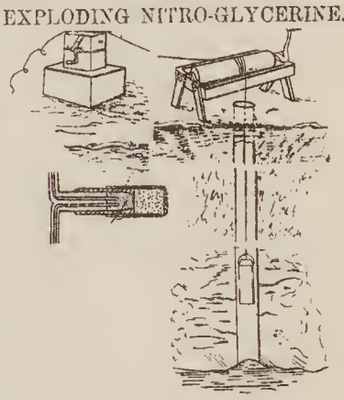
F. B. MORSE. 93,111,
TRACE-FASTENER.



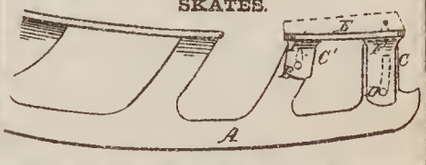
93,112, JACOB MOSER.
DOOR-LATCHES.



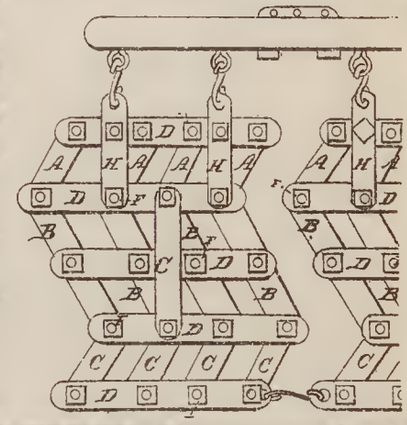
93,113. G. W. MOWBRAY.
EXPLODING NITRO-GLYCERINE.



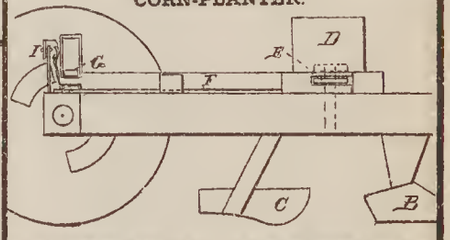
93,114, JAMES W. NATHAN.
SKATES.



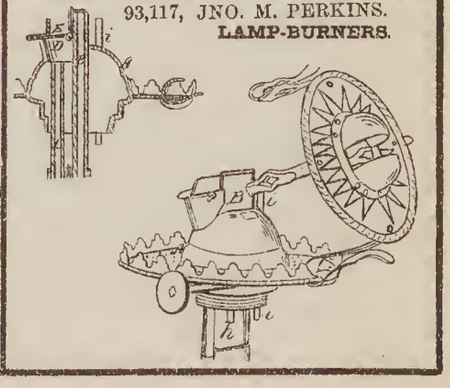
93,115, A. A. NUQUIST. **HARROWS.**



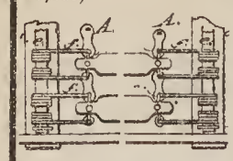
93,116, JOHN I. PATTON.
CORN-PLANTER.



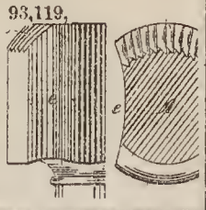
93,117, JNO. M. PERKINS.
LAMP-BURNERS.



JAMES POTTER. SPRING-BED BOTTOM. 93,118,

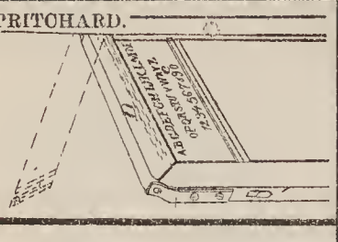


93,119,

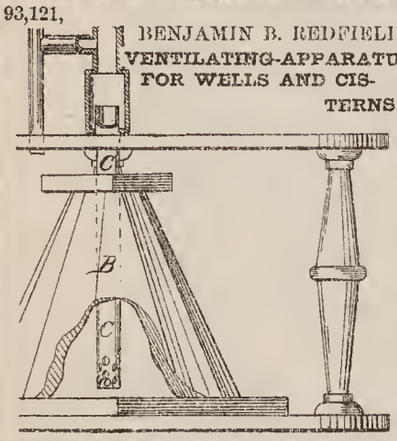


A. J. PRESCOTT. REAMER.

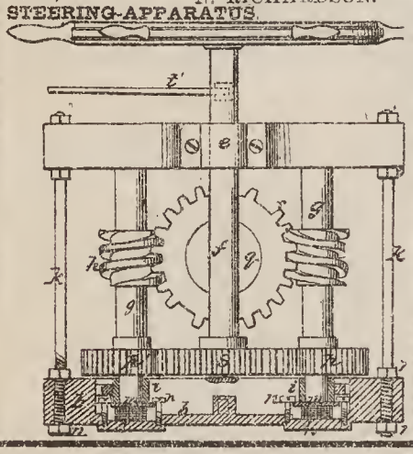
LOUIS PRITCHARD. SLATES. 93,120,



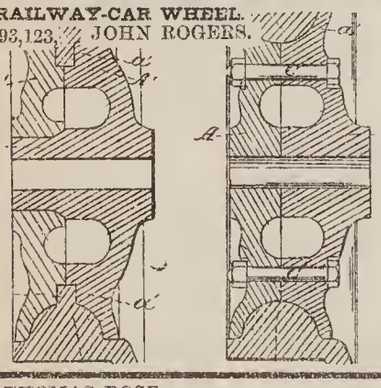
93,121, BENJAMIN B. REDFIELD. VENTILATING-APPARATUS FOR WELLS AND CISTERNS.



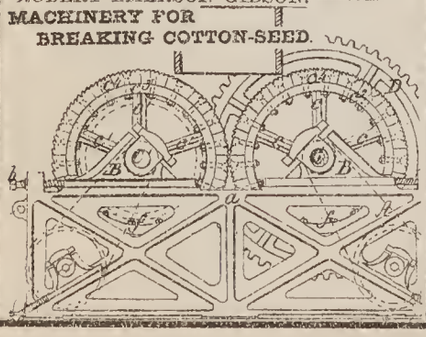
93,122, N. RICHARDSON. STEERING-APPARATUS.



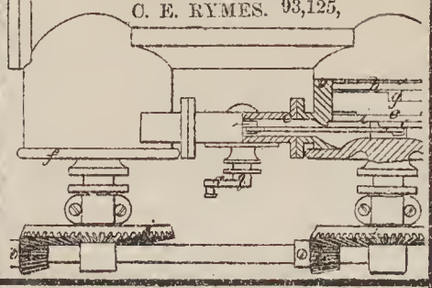
RAILWAY-CAR WHEEL. 93,123, JOHN ROGERS.



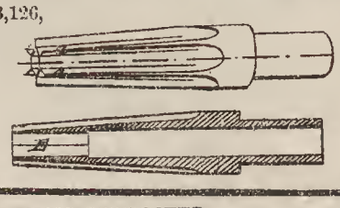
THOMAS ROSE. ROBERT EMERSON GIBSON. 93,124, MACHINERY FOR BREAKING COTTON-SEED.



STEAM-ENGINE-VALVE GEAR. C. E. RYMES. 93,125,

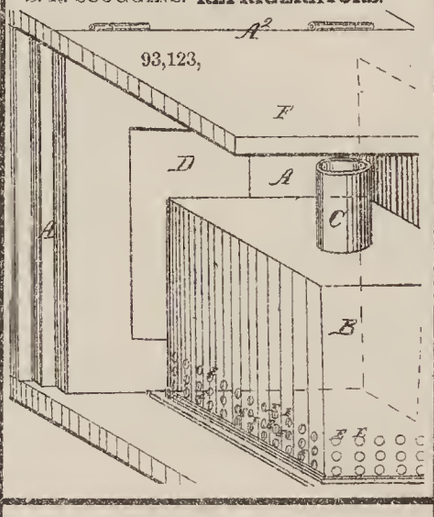


J. B. SAWYER. RATTAN-CUTTERS. 93,126,



FRANCIS SCHLEIFER. 93,127, PURIFYING AND REFINING ALCOHOLIC LIQUIDS.

S. R. SCOGGINS. REFRIGERATORS. 93,123,



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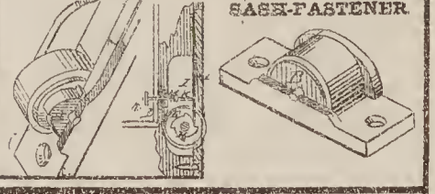
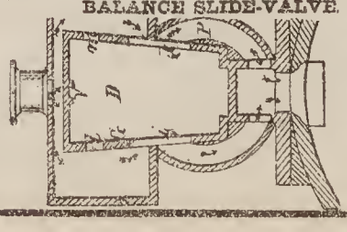
KNAPSACK-ATTACHMENTS. JAMES SHERLOCK. 93,130,

JOHN E. SIEBEL. 93,131, MEDICAL PURPOSES. PREPARATION OF IRON FOR

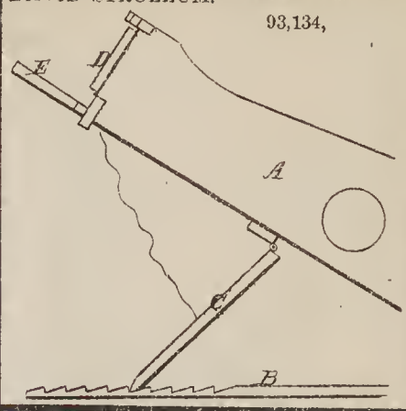
93,132, HENRY B. SNYDER. SASH-FASTENER.



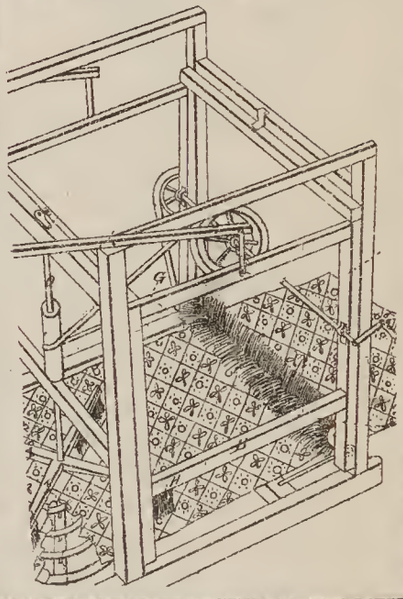
93,133, ANTOINE STEBER. BALANCE SLIDE-VALVE.



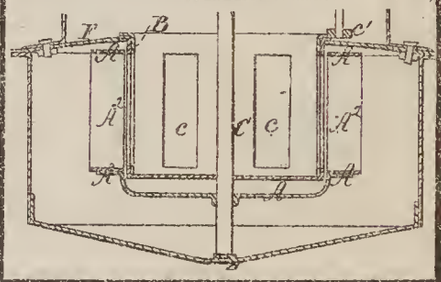
DAVID STROLLUM. SACK-HOLDERS. 93,134,



93,135, C. W. STROUT. AMOS WILDER. VARNISHING FLOOR OIL-CLOTH.

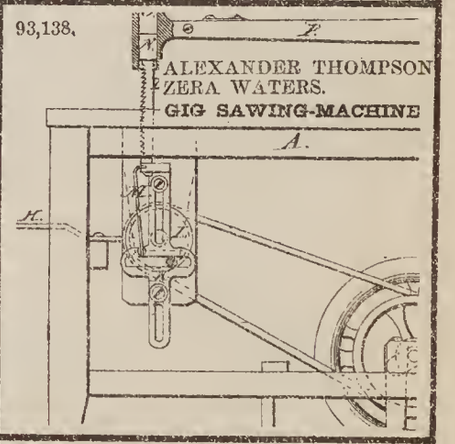


B. I. TALBOTT. WATER-WHEELS. 93,136,

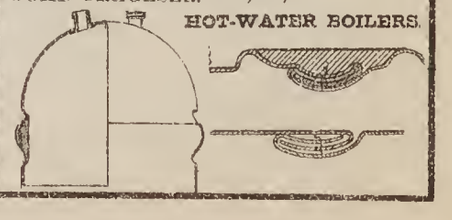


THOMAS TAYLOR. 93,137, ALLOY FOR SABOTS OF PROJECTILES.

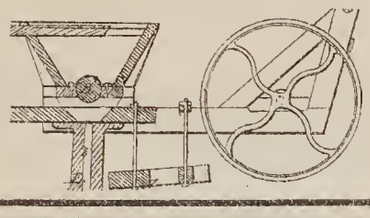
93,138, ALEXANDER THOMPSON. ZERA WATERS. GIG SAWING-MACHINE.



JOHN TRAGESER. 93,139, HOT-WATER BOILERS.

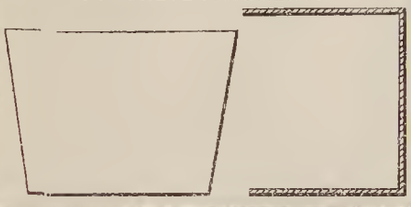


93,140, W. F. TUNNARD.
CORN-PLANTERS



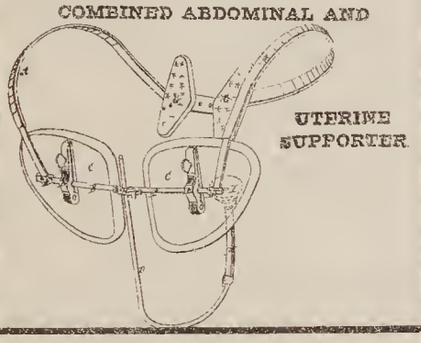
93,141, AMOS H. TYLER.
CHEWING-GUM COMPOUND.

93,142 A. VAN CAMP.
CONCRETE PAVEMENT.

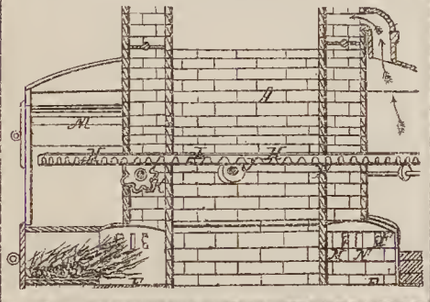


93,143, WILLIAM H. WALLACK.
LINIMENT.

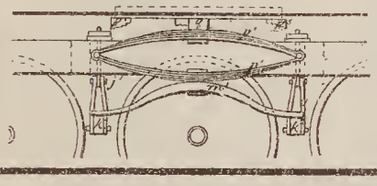
93,144. ZERA WATERS.
COMBINED ABDOMINAL AND UTERINE SUPPORTER.



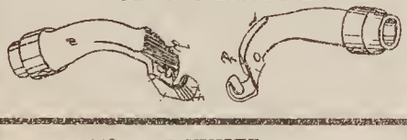
93,145, W. C. WEDGE.
OVEN.



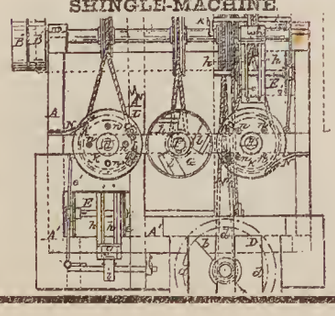
93,146. ASHBEL WELCH.
RAILWAY-CAR TRUCK.



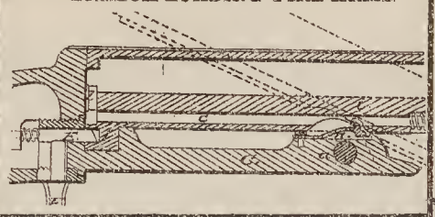
93,147, WASHINGTON WENDELL.
BINDING-ATTACHMENT FOR SEWING-MACHINES.



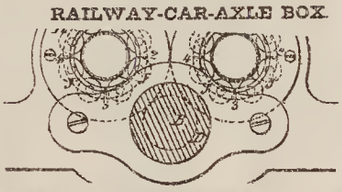
93,148, G. F. WHITE.
SHINGLE-MACHINE.



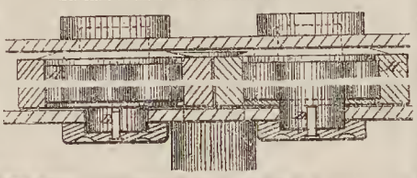
93,149. E. WHITNEY.
C. GERNER.
F. TIESING.
BREECH-LOADING FIRE-ARMS.



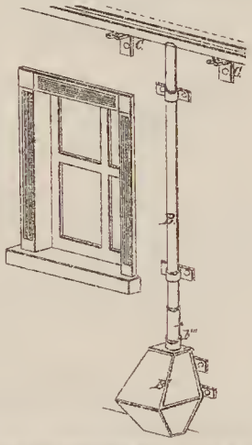
93,150, W. E. WILCOX.
RAILWAY-CAR-AXLE BOX.



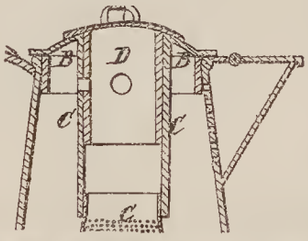
93,151, W. E. WILCOX.
T. H. WILLS.
RAILWAY-CAR-AXLE BEARING.



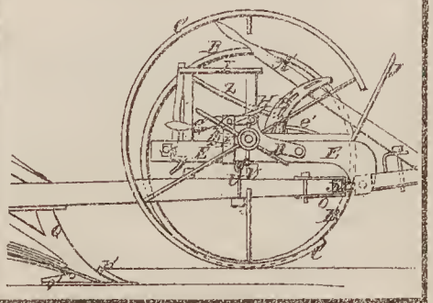
93,152. GARRET WILLIAMS.
RAIN-WATER SPOUTING.



93,153, P. B. WILLOUGHBY.
H. G. PHELPS.
COFFEE-POT.



93,154, H. B. SMITH.
COMBINED PLOW, CULTIVATOR, AND POTATO-DIGGER.



93,155, JAMES J. JOHNSTON.
MANUFACTURE OF IRON AND STEEL.

3,565, THOMAS BOYD.
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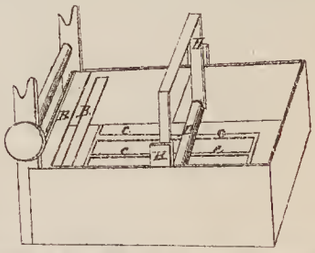
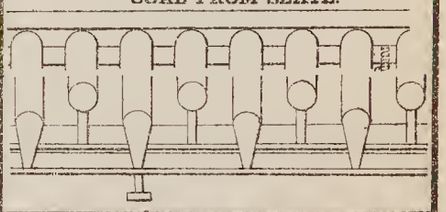
3,566,

SAWS.
EBEN MOODY BOYNTON.

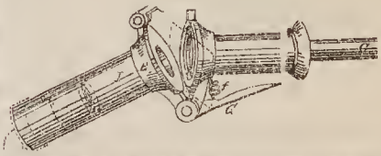
3,567. HORACE F. EVANS.
MANUFACTURE OF TARRED PAPER, PASTEBOARD, &c.



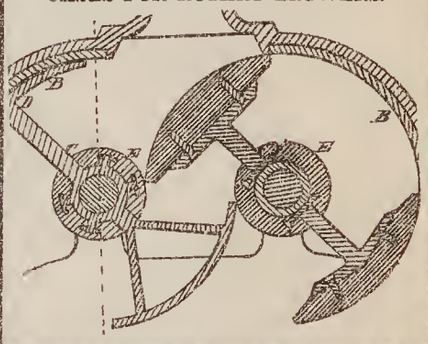
3,568, L. P. GARNER.
DEVICE FOR SEPARATING COAL FROM SLATE.



3,569, CHAS. KIRCHHOF.
BLAST-GUNS.

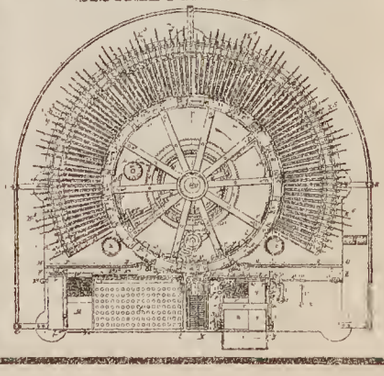


3,570, P. H. ROOTS.
F. M. ROOTS.
CASES FOR ROTARY BLOWERS.



MOSES RUBEL, CUTLERY.
3,571.

3,572. TYPE-SETTING AND DISTRIBUTING MACHINES.



ILLUSTRATIONS OF PATENTS

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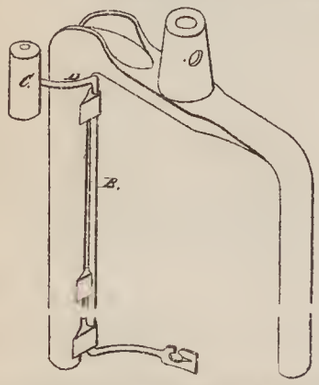
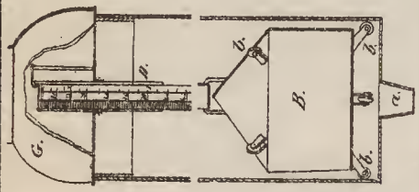
AUG. 3, 1869.

93,156, S. A. B. ABBOTT. E. F. FIELDS. **FLIERS FOR SPINNING.**



93,157, ISAAC ADAMS, **IMPROVEMENT IN THE ELECTRO-DEPOSITION OF NICKEL.**

93,158, IRA R. AMSDEN. **HYDROSTATIC SCALE FOR TONNAGE OF VESSELS.**



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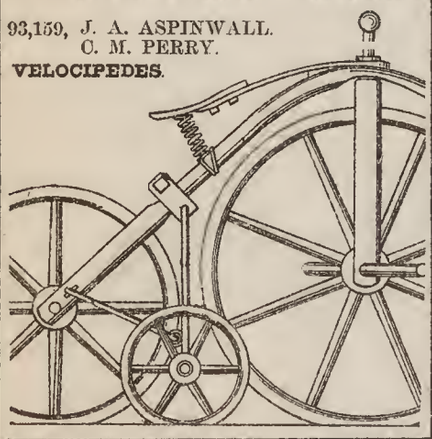
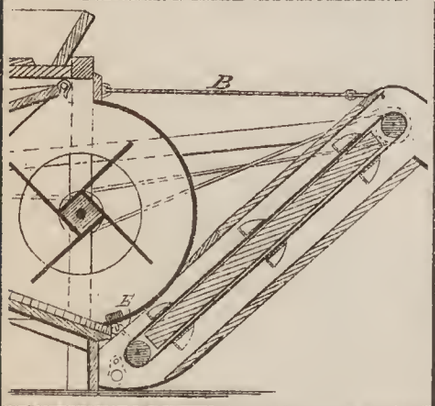
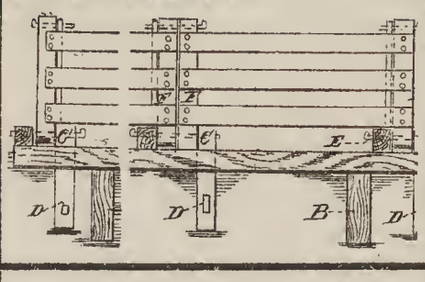


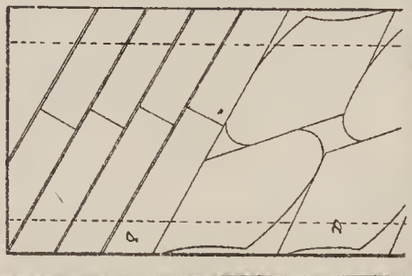
93,160, PARDON AUSTIN. **FANNING-MILL ATTACHMENT.**



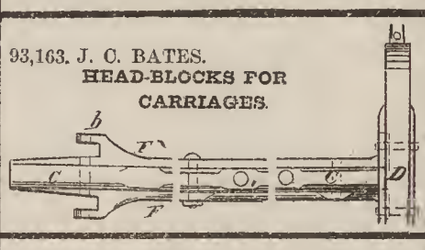
93,161, WILLIAM F. AUXIER. **FLOOD-FENCES.**



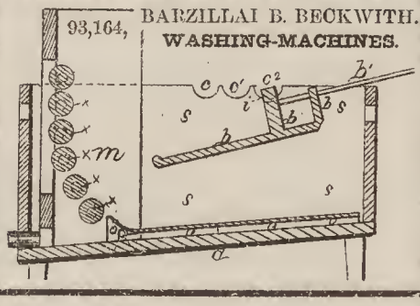
93,162, HENRY BARNES. **PLATE FOR MAKING BLANKS FOR MOULD-BOARDS AND SHARES FOR PLOWS**



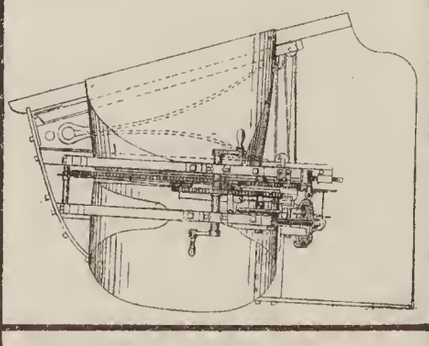
93,163. J. C. BATES. **HEAD-BLOCKS FOR CARRIAGES.**



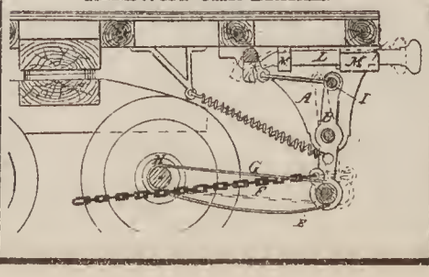
93,164, BARZILLAI B. BECKWITH. **WASHING-MACHINES.**



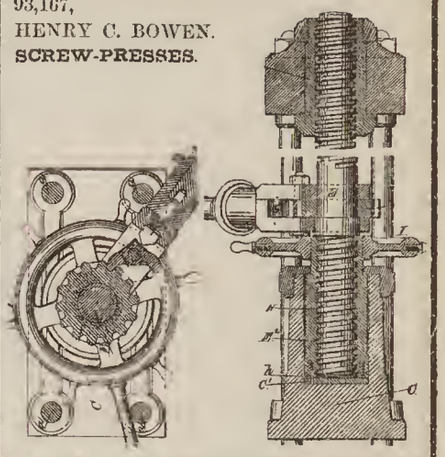
93,165, JACOB BEHEL. **GRAIN-BINDERS.**



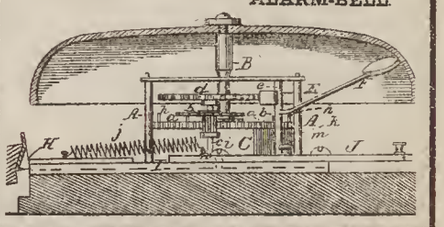
93,166, NORBORNE BERKELEY. **RAILWAY-CAR BRAKE.**



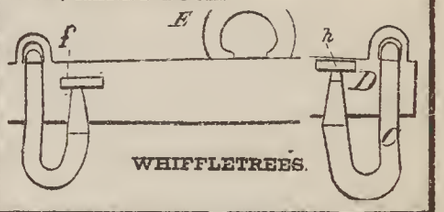
93,167, HENRY C. BOWEN. **SCREW-PRESSES.**



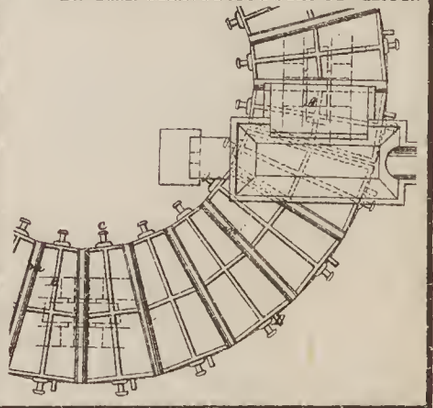
93,168, LUCIEN F. BRUCE. **ALARM-BELL.**



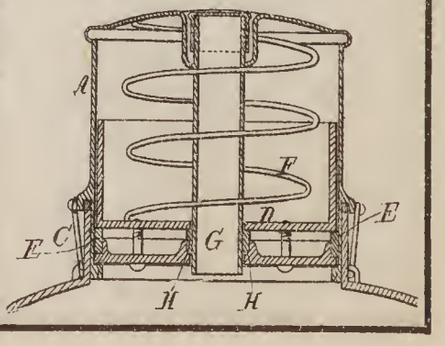
93,169, HENRY BUCK. **WHIFFLETREES.**



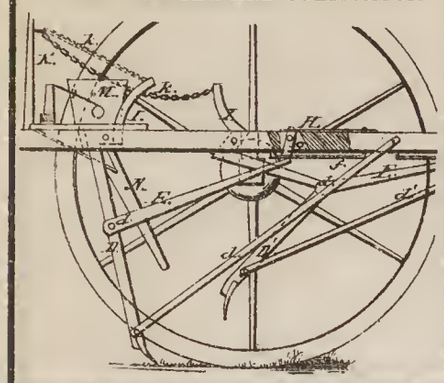
93,170, JAS. A. BURDEN. **APPARATUS FOR MAKING PIG-BLOOMS IN THE MANUFACTURE OF IRON.**



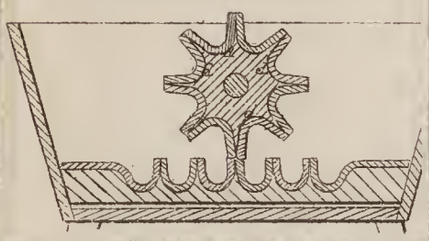
93,171, JOHN M. BURGHARTT. **MILK-CAN STOPPERS.**



93,172, JOHN CAMPBELL. **COMBINED CORN-PLANTER AND CULTIVATOR.**



93,173, HEMAN CARTER. **WASHING-MACHINE.**



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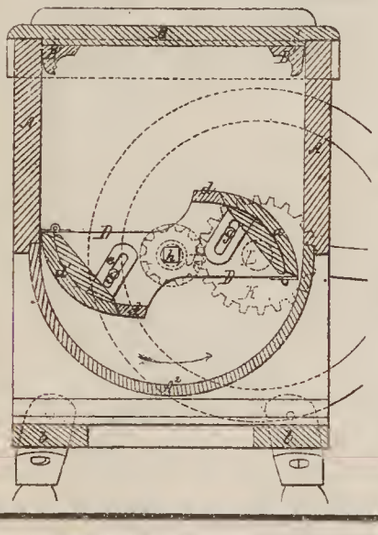
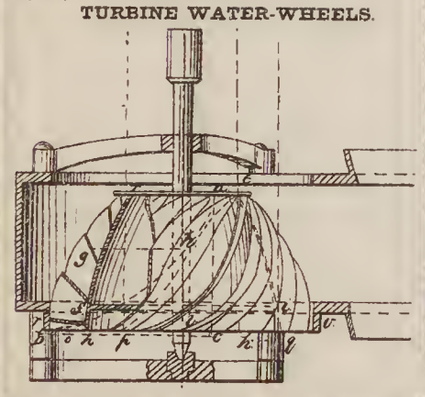
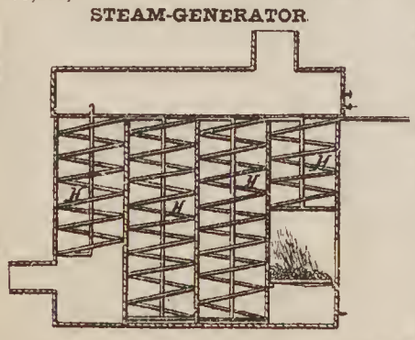


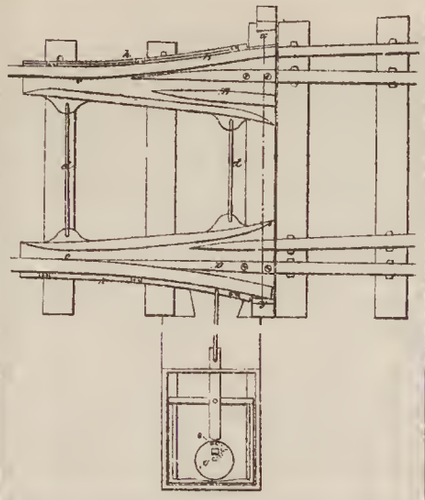
93,175, JOHN CHASE. **TURBINE WATER-WHEELS.**



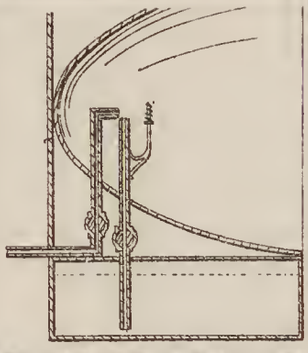
93,176, ROBT. A. CHESEBROUGH. **STEAM-GENERATOR.**



93,177. A. CONARRO. ZAK. GEMMILL. **SAFETY-SWITCH FOR RAILWAYS.**



93,178, C. L. COOMBS. JOHN A. BASSETT. **METHOD OF PRODUCING CALCIUM-LIGHTS.**



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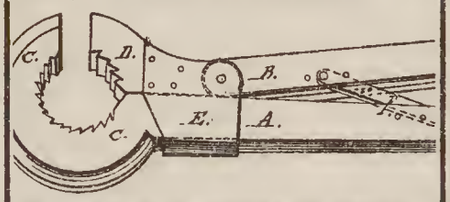

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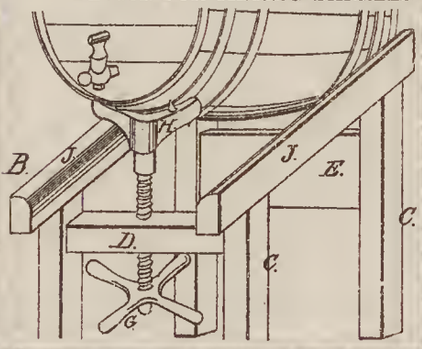
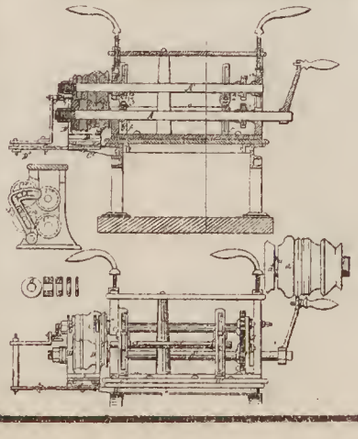


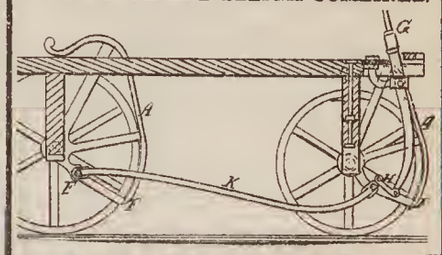
93,181, DANL. CUSHING. **MACHINE FOR CURVING AND SHAPING SHEET-METAL.**



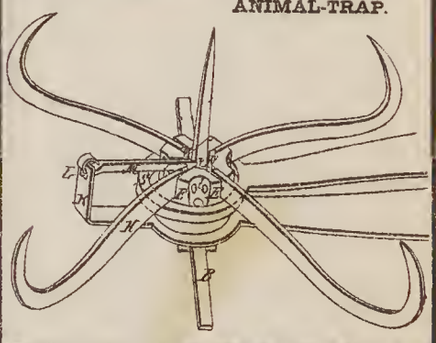
93,182, R. D'HEUREUSE. **MODE OF PRESERVING LIQUID AND OTHER SUBSTANCES.**

93,183, JULIUS EDMUND DOTCH. **PRESERVING MEATS, POULTRY, FISH.**

93,184, JOHN S. DRAKE. **CARRIAGE AND SLEIGH COMBINED.**



93,185, MELVIN W. DRAKE. **ANIMAL-TRAP.**



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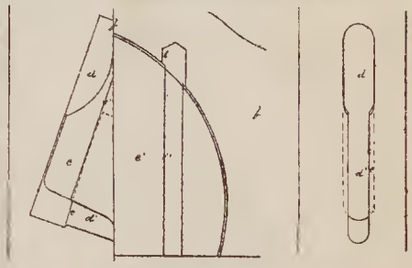
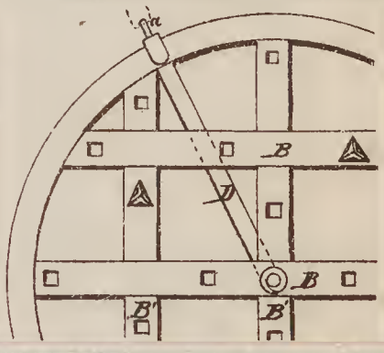
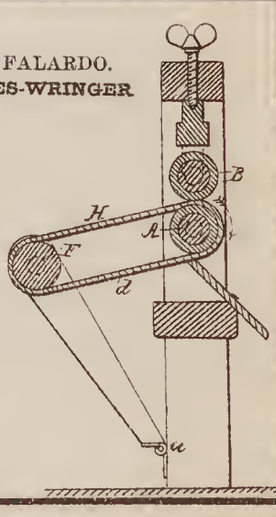


93,187, WILLIAM A. ESTES. **HARROWS AND CULTIVATORS.**



93,188, PETER FALARDO. **CLOTHES-WRINGER.**



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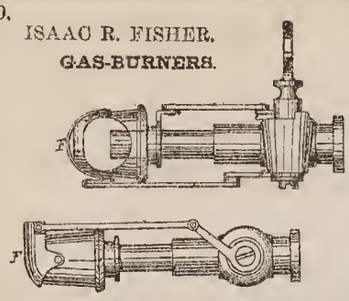
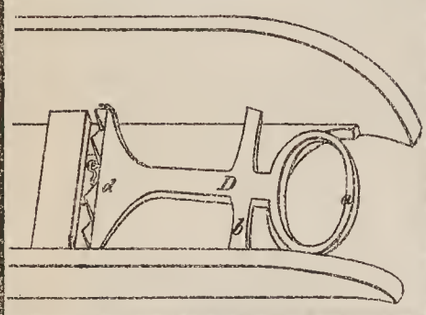


93,190, W. F. FOLEY. SLED-BRAKE.



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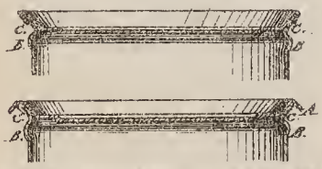

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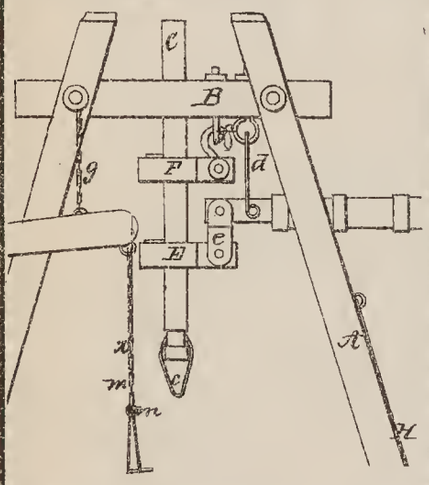

93,193, JOHN W. GILLAM.
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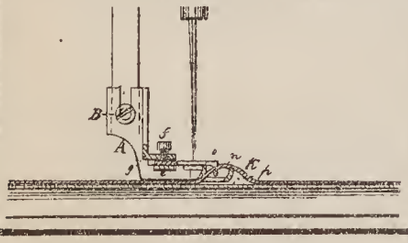

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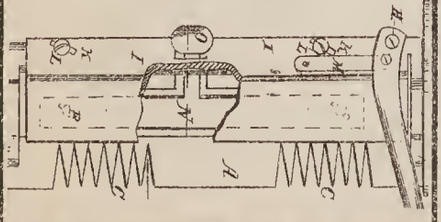

93,195, DAVID E. HALL.
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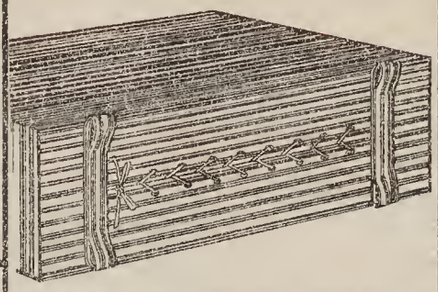

93,196,
HEMAN B. HAMMON.
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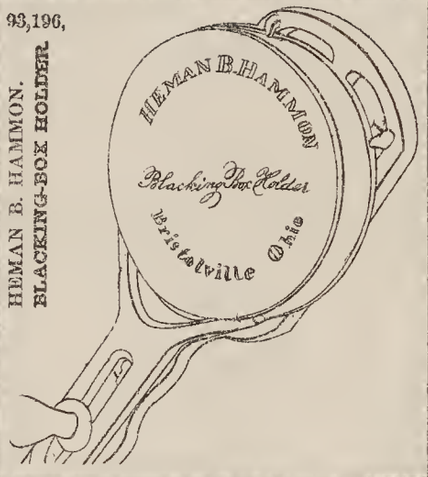

93,197, JOHN T. HANCOCK.
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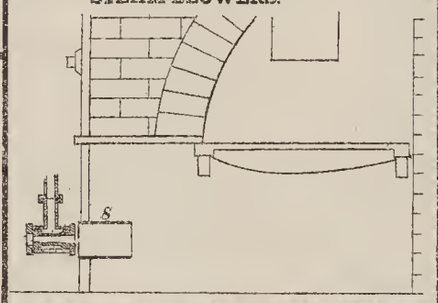

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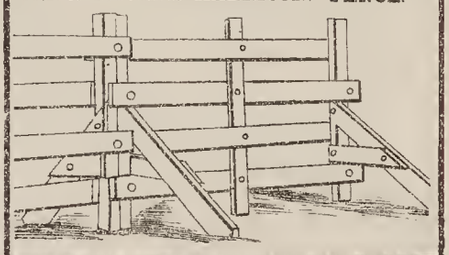

93,199, ANDREW HARTUPEE.
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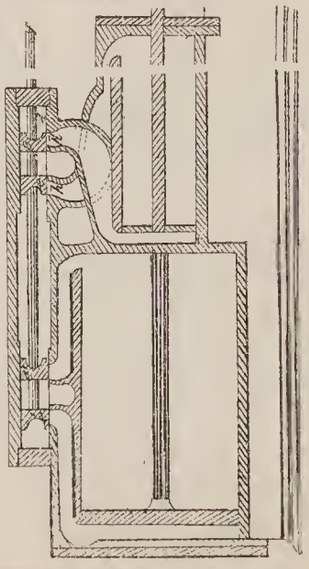

93,200, HY. HAYWARD.
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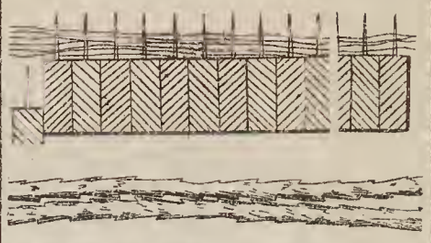

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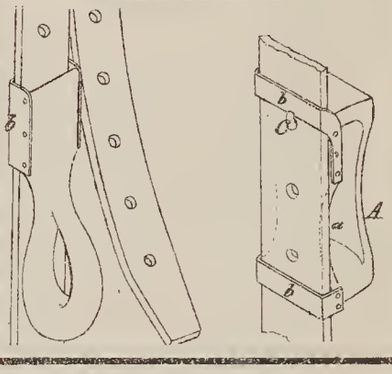

93,202, WALTER S. HOTCHKISS.
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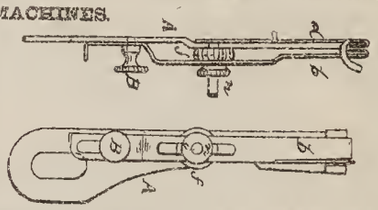

93,203, SAMUEL HUBER.
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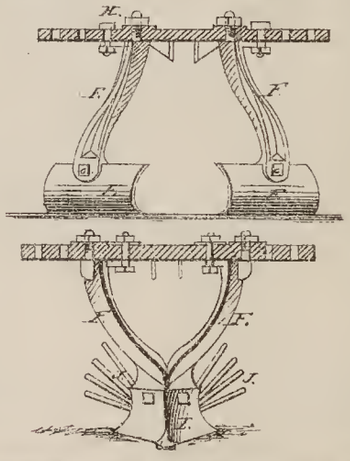
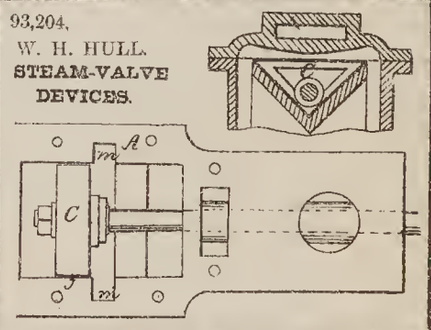
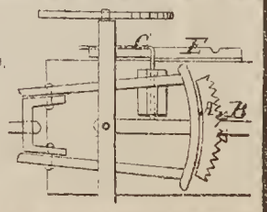


93,204,
W. H. HULL.
STEAM-VALVE DEVICES.

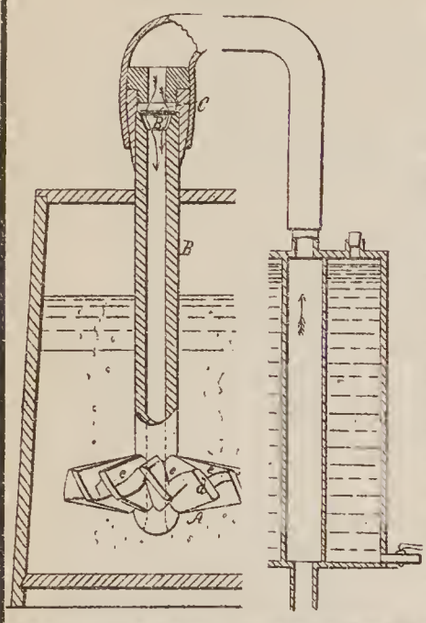


93,205,
REUBEN HURD.
WAGONS

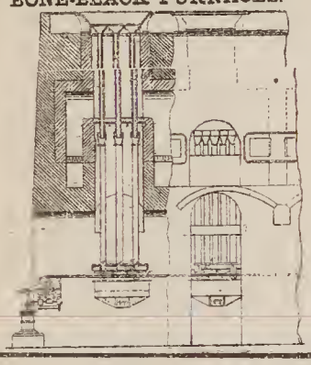


93,206. A. M. JOHNSTON.
H. H. AVRIT.
HOG-CHOLERA REMEDY

93,207 WM. KEGG.
CHURN-DASHERS.

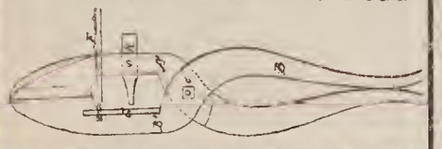


93,208, EUGEN LANGEN. **APPARATUS FOR EMPTYING THE COOLING-TUBES OF BONE-BLACK FURNACES.**

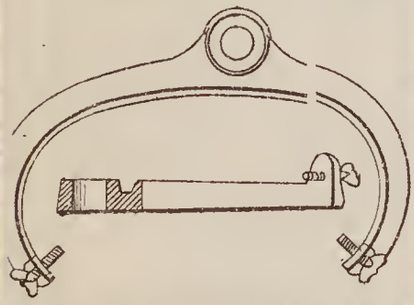


93,209. JOSEPH LLADO.
MEDICAL COMPOUND OR "BITTERS.

93,210, SAMUEL LONG.
TAMING AND MARKING HOGS.

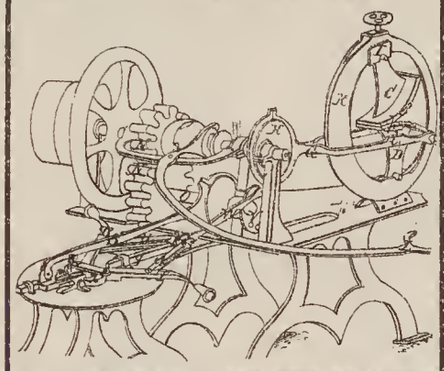


93,211, LUTHER LONGLEY. **YOKE FOR STANDARLS FOR STOVE-SHELF.**

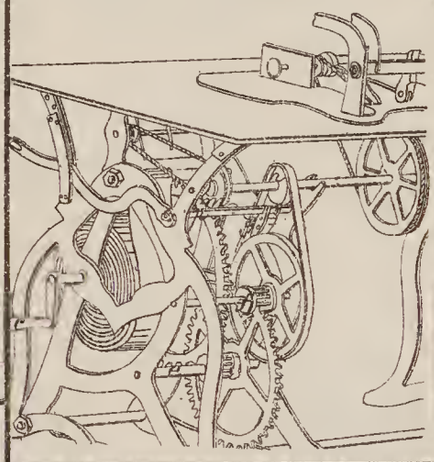


93,212, A. J. LUTZ. **MILLING-TOOL.**
H. REISS.

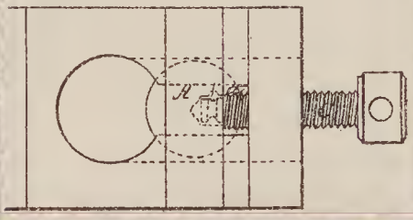
93,213. WESLEY MALICK.
MACHINE FOR MAKING CHAIN.



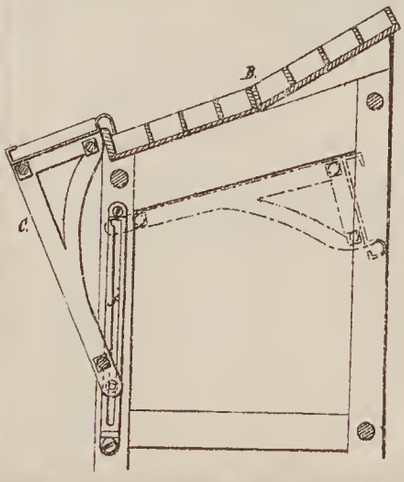
93,214, GEORGE W. MANSON.
MECHANISM FOR DRIVING SEWING-MACHINES.



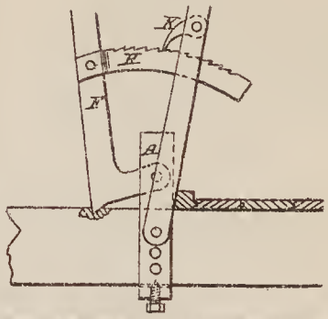
93.215. JOHN McWILLIAMS.
DIE-HOLDER FOR SCREW-PRESSES.



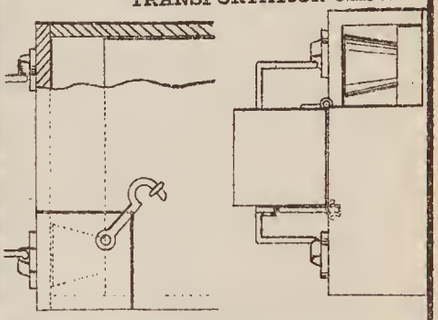
93.216, JOHN M. MURPHY.
PRINTERS' GALLEY-REST.



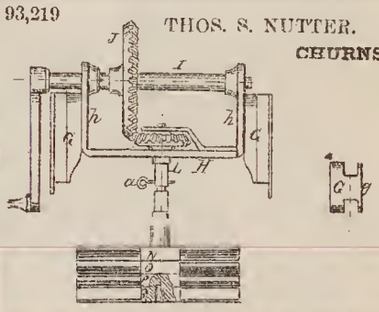
93,217. **FLOORING-CLAMP.**
DAVID NEVIN.



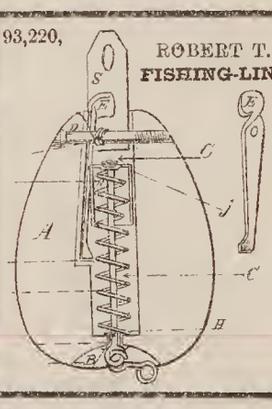
93,218. EDWIN NORTON.
TRANSPORTATION-CASE.



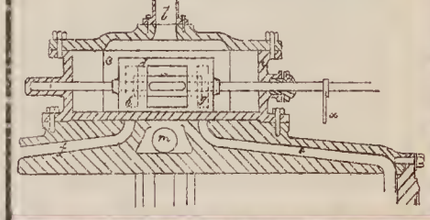
93,219 THOS. S. NUTTER.
CHURNS.



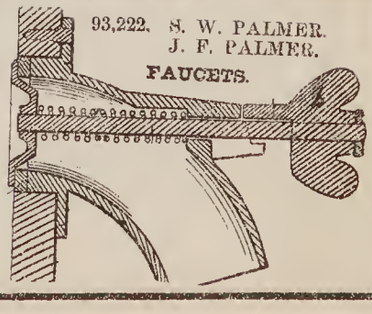
93,220, ROBERT T. OSGOOD.
FISHING-LINE SINKERS.



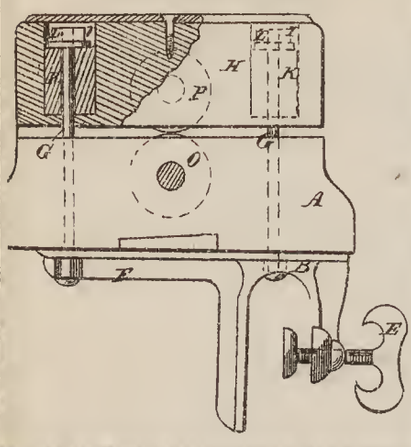
93,221. J. E. OUTRIDGE.
STEAM-VALVE DEVICE.



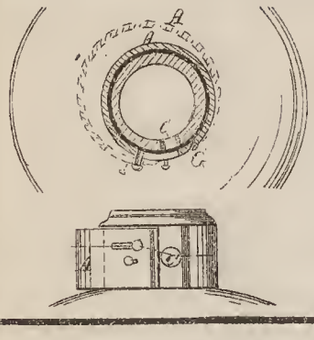
93,222. S. W. PALMER.
J. F. PALMER.
FAUCETS.



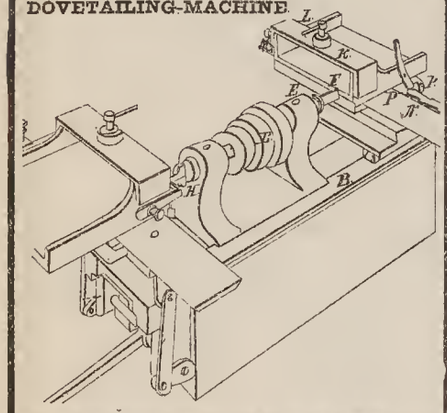
93,223, EDWARD L. PERRY.
CHARLES MANHEIM.
WRINGING-MACHINE.



93,224, JOHN PHELPS. **LAMPS.**



93,225, JOHN PHILLIPS.
DOVETAILING-MACHINE.



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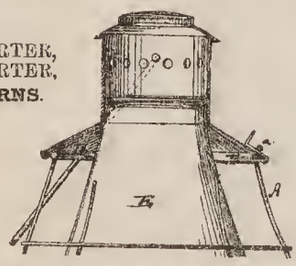
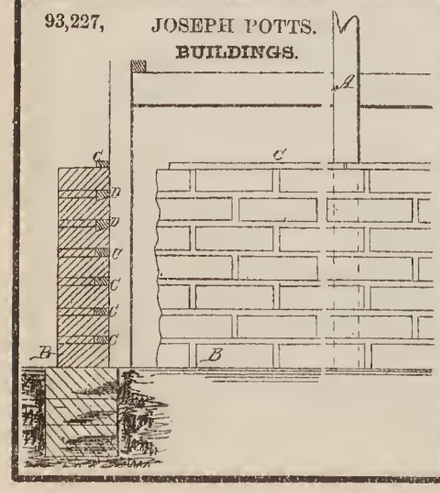
WM. PORTER,
WM. PORTER,
LANTERNS.



93,227, JOSEPH POTTS.
BUILDINGS.



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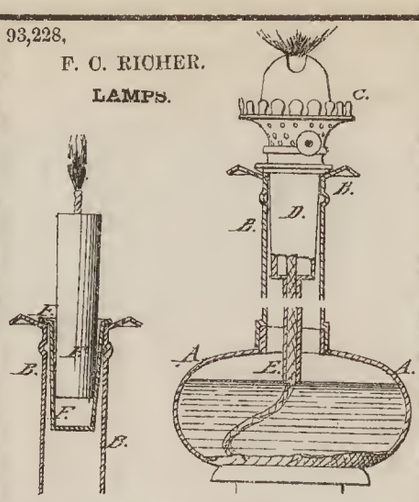
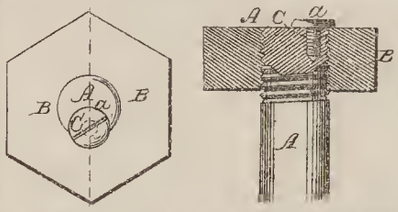
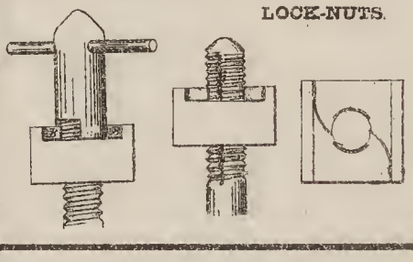
F. C. RICHER.
LAMPS.



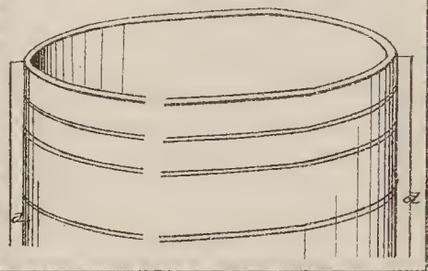
93,229, ALMON ROFF. **LOCK-NUTS.**



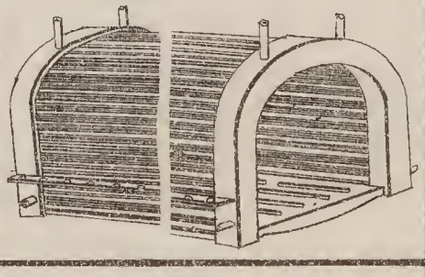
93,230, HENRY ROSAMYER.
LOCK-NUTS.



93,231, JOSHUA A. ROSBECK.
GRAIN-MEASURES.



93,232. SILAS C. SALISBURY.
STEAM-GENERATORS.



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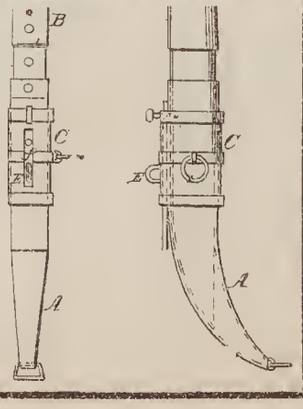
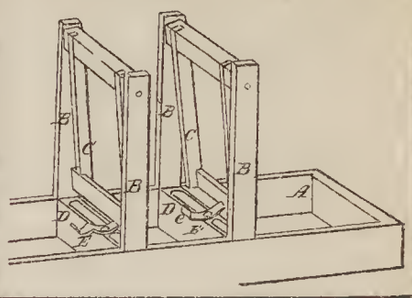
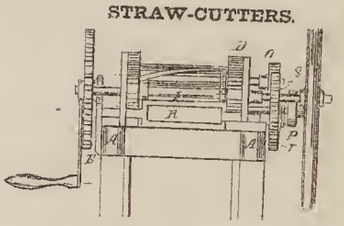
EXTENSION-HAMES.



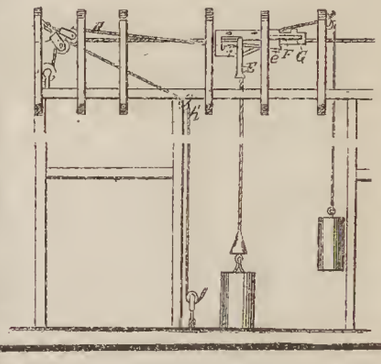
93,234. BENONI C. SCOTT.
FEEDING-DOORS FOR ANIMAL-PENS



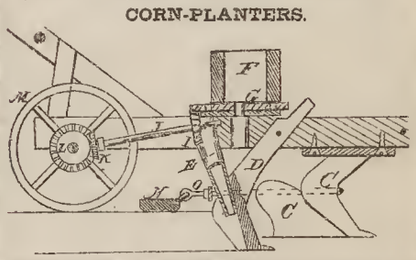
93,235. L. SEARS.
STRAW-CUTTERS.



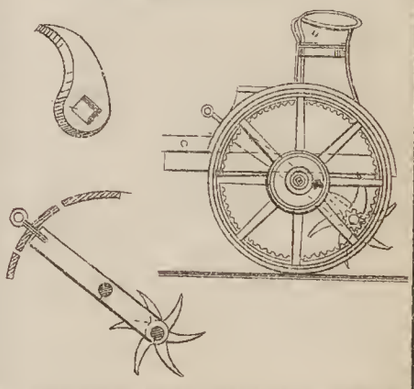
93,236. SAMUEL B. SECRIST.
ISAAC SEYSTER.
HAY-ELEVATOR.



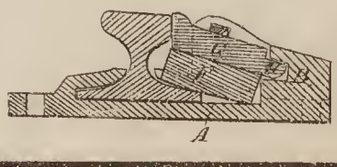
93,237, PETER SHELLENBERGER.
CORN-PLANTERS.



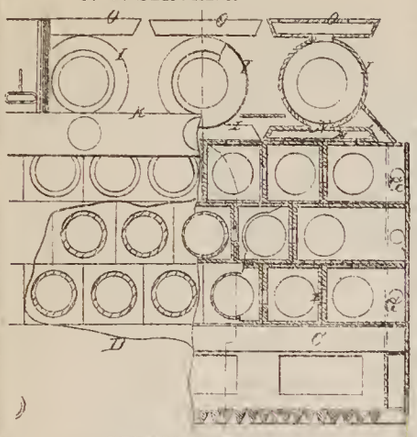
93,238. B. E. SIVERTSEN.
ROTARY SPADES.



93,239, D. B. SKELLY.
RAILWAY-CHAIR.

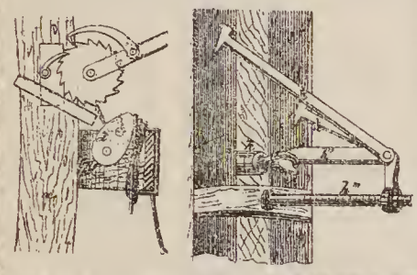


93,240, HIRAM B. SMITH.
J. V. STEVENS.

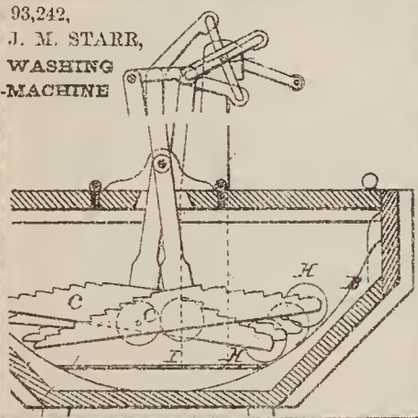


STEAM-GENERATORS.

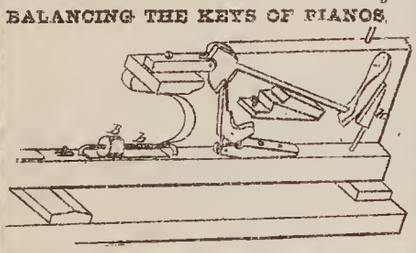
93,241, PELEG STAPLES.
CLAMPS FOR PLANKING SHIPS.



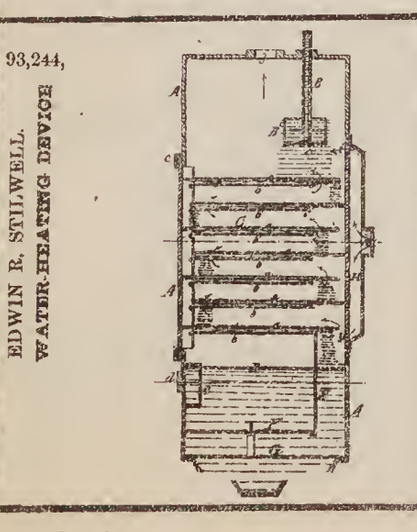
93,242,
J. M. STARR,
WASHING
-MACHINE



93,243, FRANK J. STEINHAUSER.
BALANCING THE KEYS OF PIANOS.

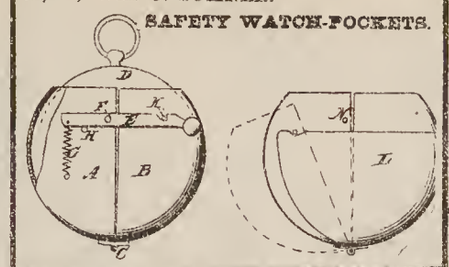


93,244,
EDWIN R. STILWELL.
WATER-HEATING DEVICE

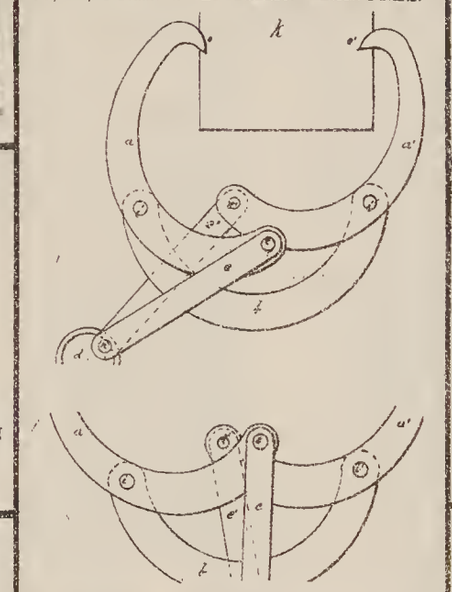


93,245, LUCIUS S. STIMSON.
COMPOSITION FOR ROOFING.

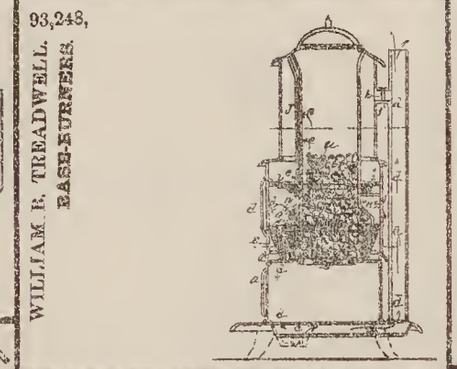
93,246, WM. O. SUMNER.
SAFETY WATCH-POCKETS.



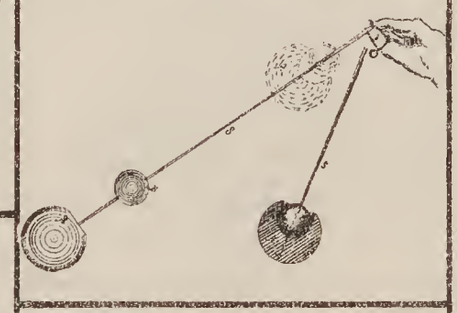
93,247, JOHN F. THOMAS. GRAPPLES.



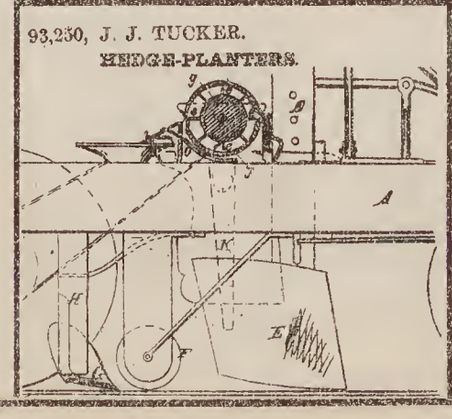
93,248,
WILLIAM B. TREADWELL.
BASE-BURNERS.



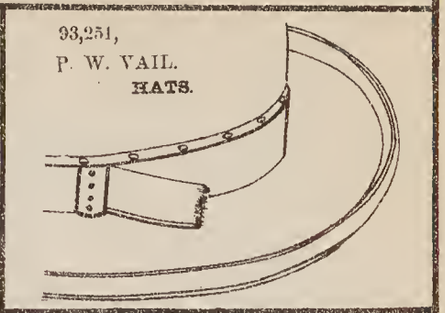
93,249, HENRY TREBE. TOY-BALL.



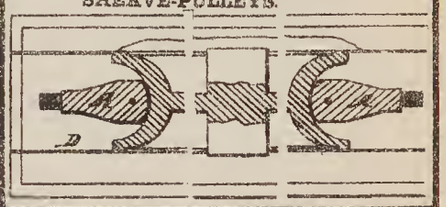
93,250, J. J. TUCKER.
HEDGE-PLANTERS.



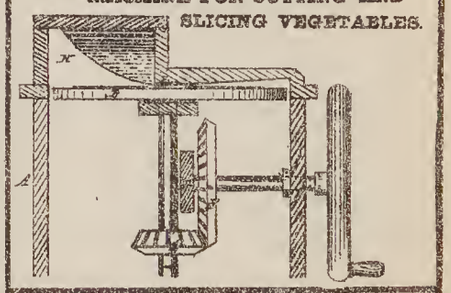
93,251,
P. W. VAIL.
HATS.



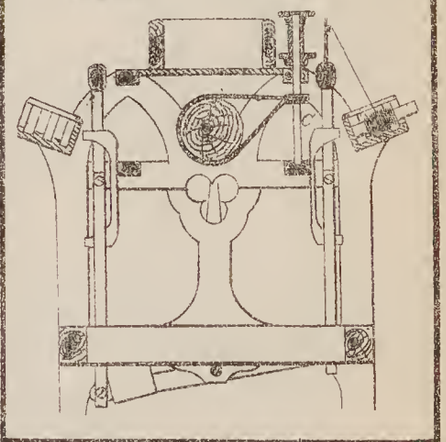
93,252, J. B. VANNAN. N. P. CRAMER.
SHEAVE-PULLEYS.



93,253, C. H. VAN ORSTRAND.
MACHINE FOR CUTTING AND
SLICING VEGETABLES.

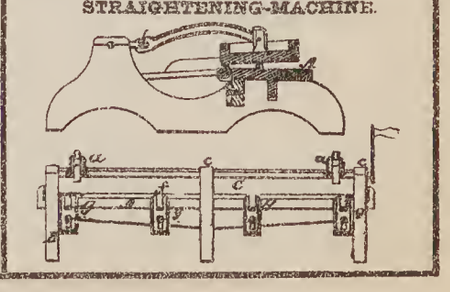


93,254, ASEL M. WADE.
MACHINE FOR SPOOLING THREAD.

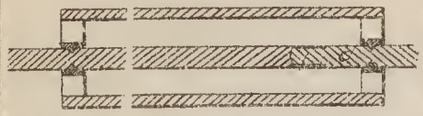


93,255, C. F. WALKER.
WASHING-MACHINE.

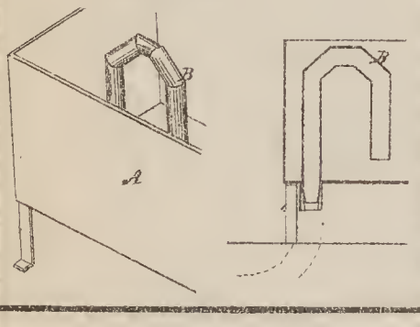
93,256, J. C. WARE.
STRAIGHTENING-MACHINE.



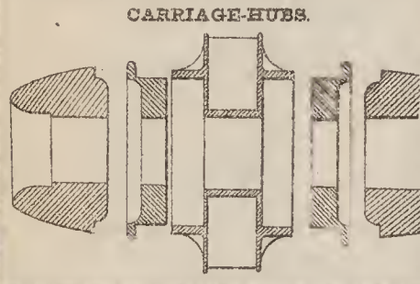
93,257. ZADOCK WASHBURN.
CASTING HOLLOW-METAL ROLLERS WITH SHAFTS.



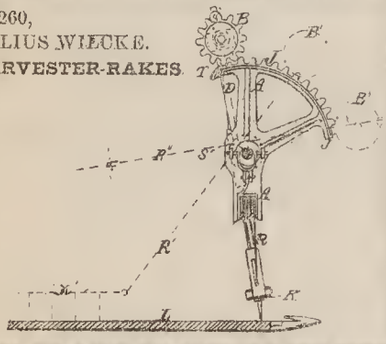
93,258, E. WHITELEY.
GREASE-TRAPS.



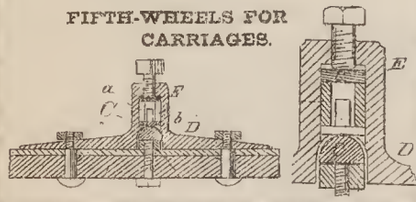
93,259, JAMES M. WHITING.
CARRIAGE-HUBS.



93,260,
JULIUS WIECKE.
HARVESTER-RAKES.



93,261, DARIUS WILCOX.
FIFTH-WHEELS FOR CARRIAGES.



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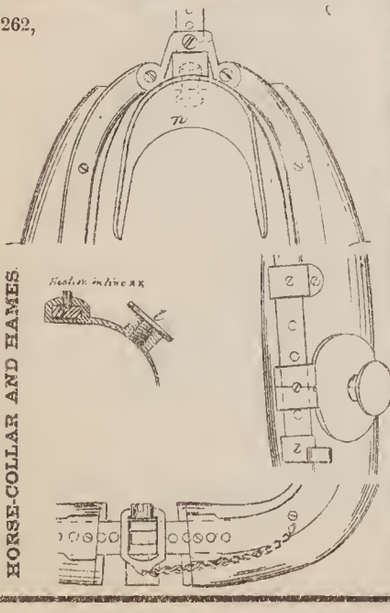
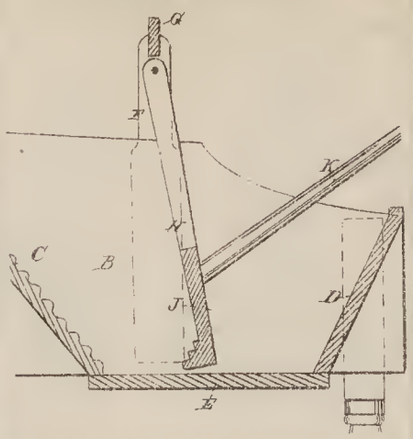
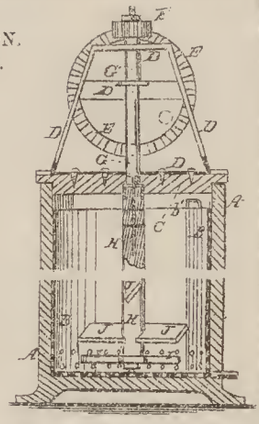


EZRA WILDER.
HORSE-COLLAR AND HAMES.

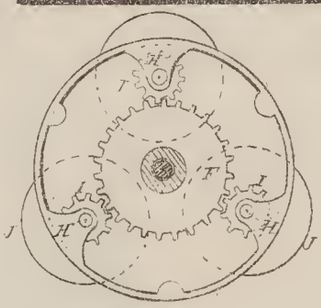
93,263, ROBERT WILSON.
WASHING-MACHINES.

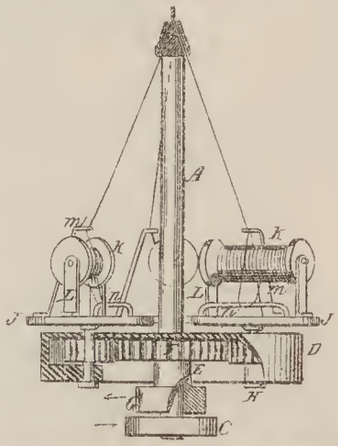


93,264,
ROBERT WILSON.
CHURNS.



93,265, GEORGE T. × WRIGHT.
CORD-MAKING MACHINE.





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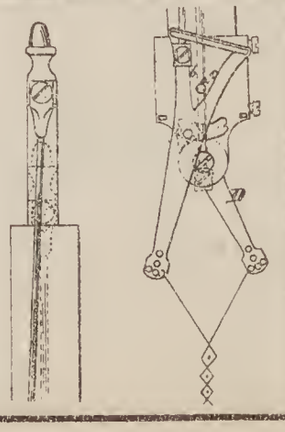
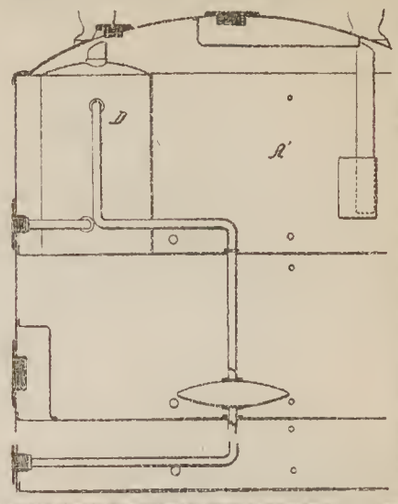
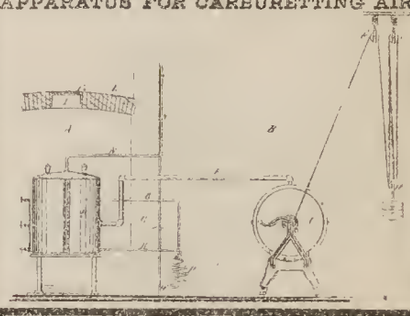


H. C. YOUNG.
EMBROIDERING-ATTACHMENT FOR SEWING-MACHINES.

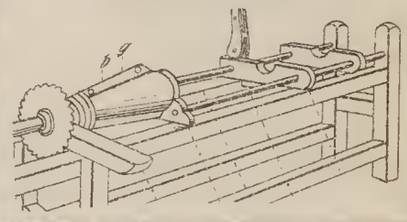
93,267, C. N. GILBERT
APPARATUS FOR CARBURETTING AIR.



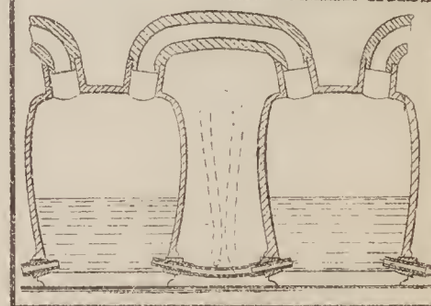
93,268, J. F. BARKER. C. N. GILBERT.
APPARATUS FOR CARBURETTING AIR.



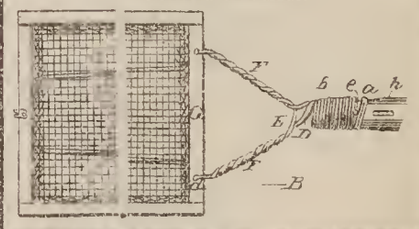
93,269, STEPHEN V. BARNS.
HOP-POLE SHARPENER.



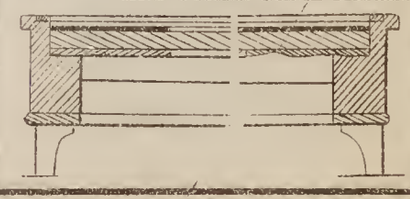
93,270, A. BAUMGARTEN.
RECEIVERS OR CARBOYS FOR THE MANUFACTURE OF MURIATIC AND OTHER ACIDS.



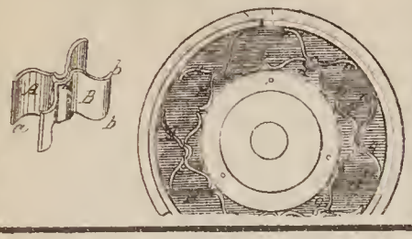
93,271, J. H. BIGELOW.
CORN-POPPERS.



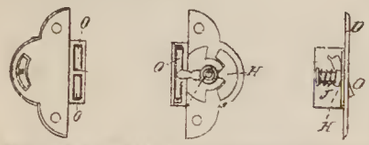
93,272, W. E. BOND.
MODE OF CONSTRUCTING BILLIARD AND OTHER GAME-TABLES.



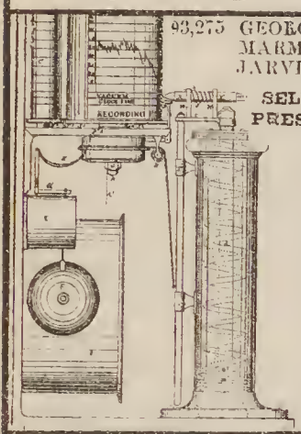
93,273, WILLIAM R. BROWN.
PISTON-SPRINGS



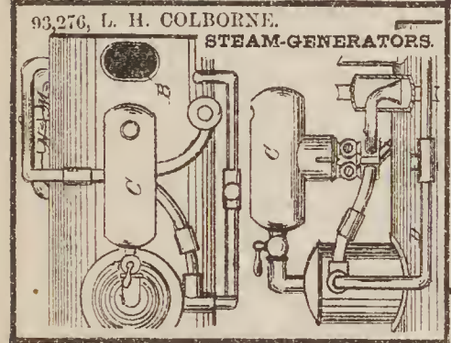
93,274, DANIEL BULL.
SASH-FASTENER.



93,275 GEORGE P. CLARKE
MARMONT B. EDSON.
JARVIS B. EDSON
SELF-RECORDING PRESSURE GAUGE



93,276, L. H. COLBORNE.
STEAM-GENERATORS.



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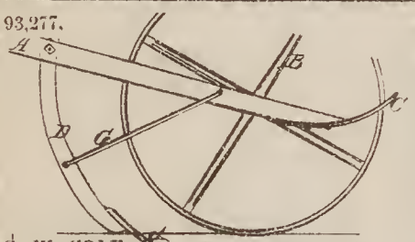
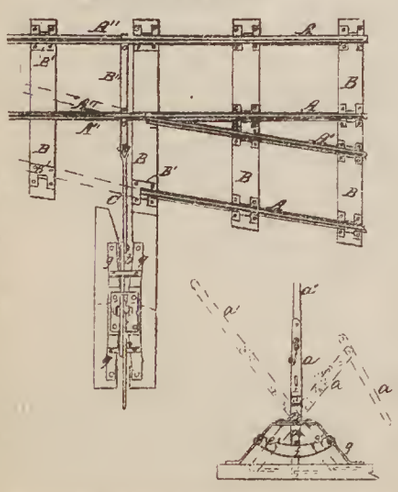
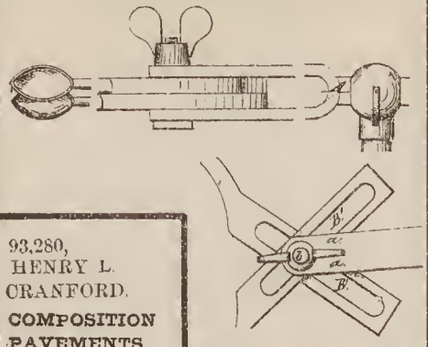


G. W. COLE. **GARDEN-PLOW.**

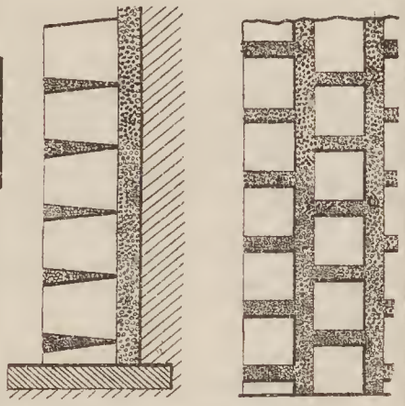
93,278, J. B. COX.
JAMES O'CONNOR.
MICHAEL CAHALAN.
RAILWAY-SWITCH.



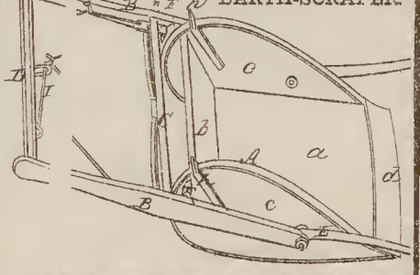
93,279, GUSTAV CRAMER JULIUS GROSS
PHOTOGRAPHIC HEAD-REST.



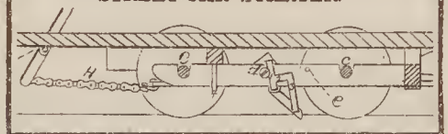
93,280,
HENRY L.
CRANFORD.
COMPOSITION PAVEMENTS.



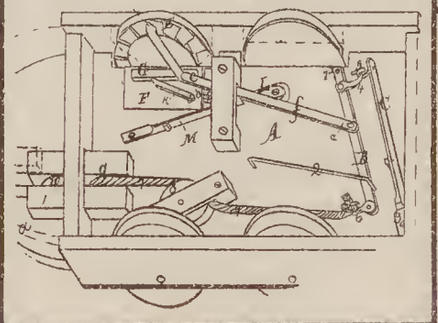
93,281, JOEL H. DALBEY.
EARTH-SCRAPER.



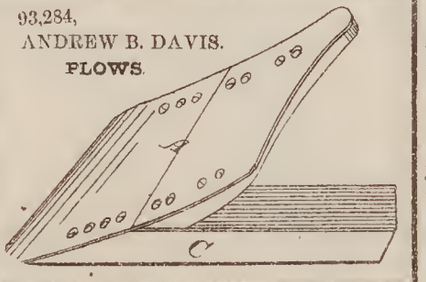
93,282, A. B. DAVIS.
STREET-CAR STARTER.



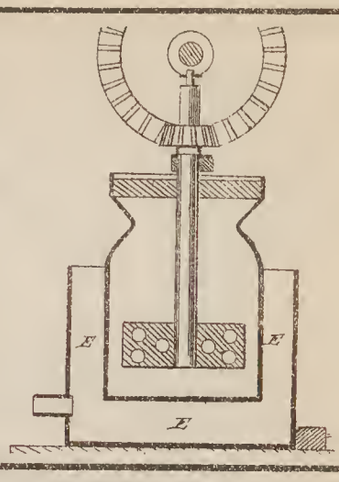
93,283, A. B. DAVIS. **CAR-STARTER.**



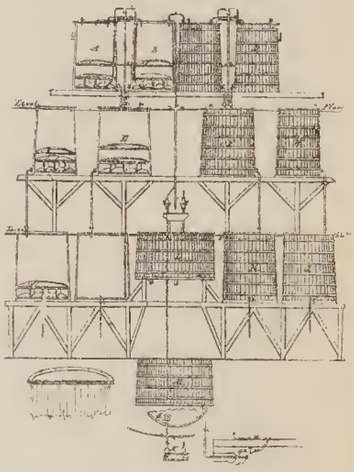
93,284,
ANDREW B. DAVIS.
PLOWS.



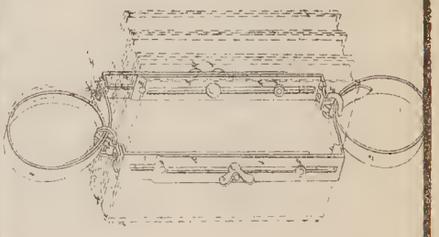
93,285, A. B. DEAN.
CHURNS.



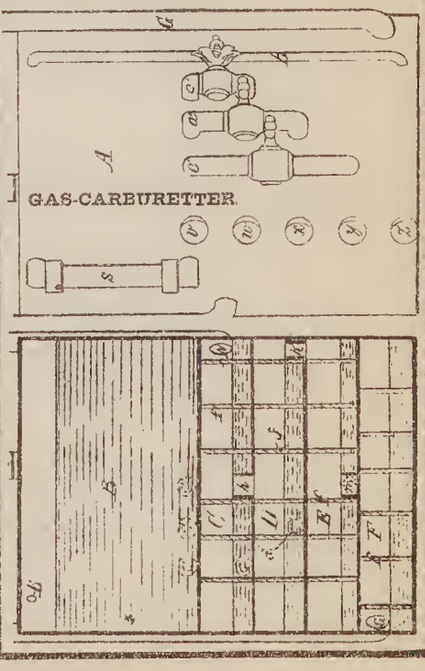
93,286, L. A. DE LIME.
PURIFYING WHISKEY AND OTHER ALCOHOLIC SPIRITS.



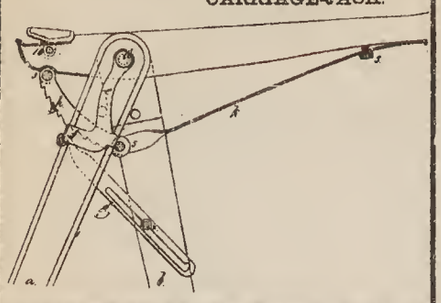
93,287, THOMAS H. DENISON.
PORTABLE CLAMP FOR SCHOOL-BOOKS.



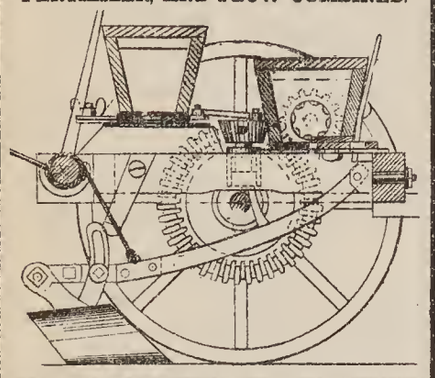
93,288, GEO. B. DYER.
GAS-CARBURETTER.



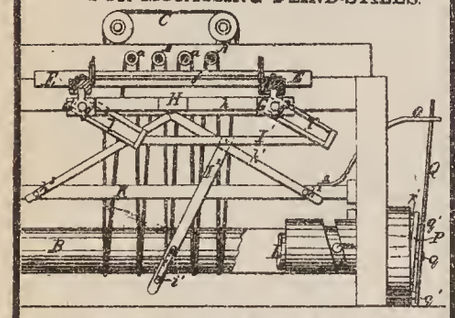
93,289, D. ELLIOT. E. SEELY.
CARRIAGE-JACK.



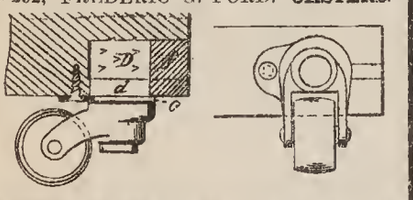
93,290, H. C. EVES. **SEED-PLANTER, FERTILIZER, AND PLOW COMBINED.**



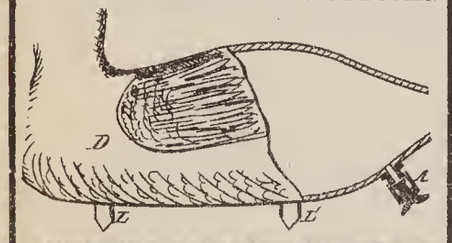
93,291, CHAS. A. FENN.
EDWARD P. FENN.
ISAAC COOK. **MACHINE FOR MORTISING BLIND-STILES.**



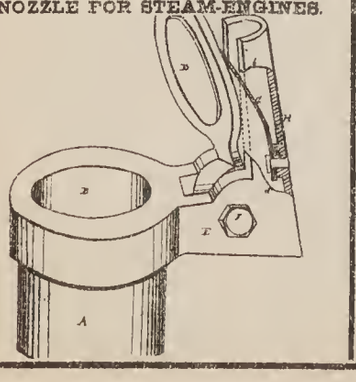
93,292, FREDERIC G. FORD. **CASTERS.**



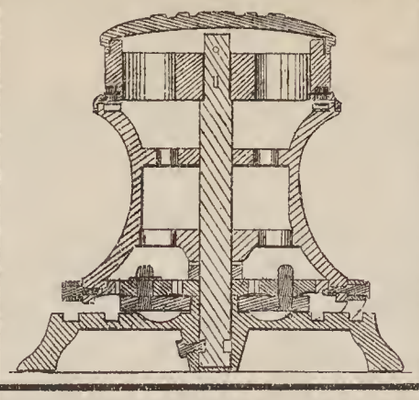
93,293. JACOB FOSTER. **DECOY-DUCKS.**



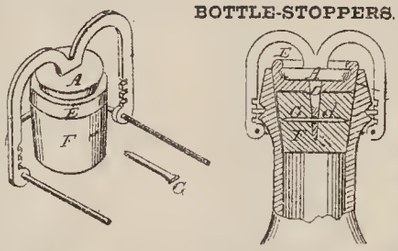
93,294, C. H. FRISBIE. **EXHAUST NOZZLE FOR STEAM-ENGINES.**



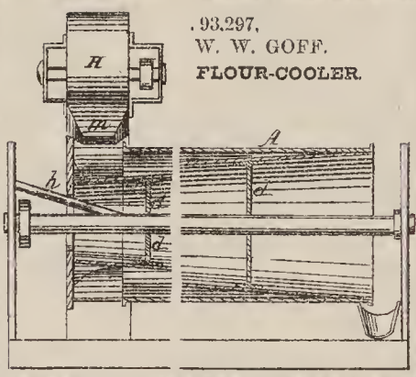
93,295, JOHN GARDNER. **CAPSTAN.**



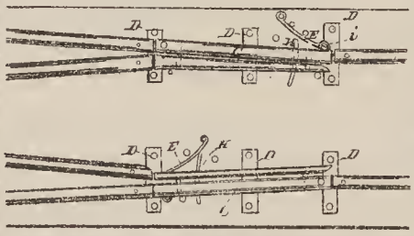
93,296, W. H. GIBBS.
BOTTLE-STOPPERS.



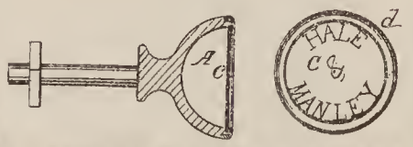
93,297,
W. W. GOFF.
FLOUR-COOLER.



93,298, CHARLES GREENMAN.
RAILWAY-SWITCH.

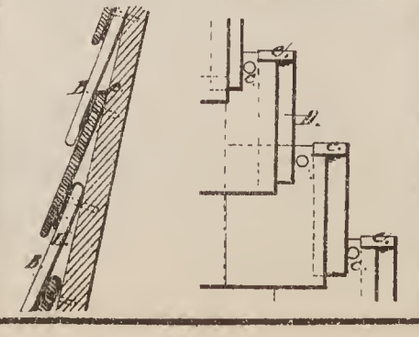


93,299, WM. MANLEY. FRED. HALE.
DRAWER-KNOB LABELS.

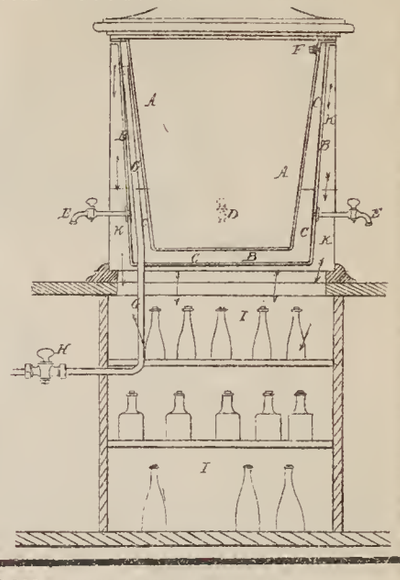


93,300. WILLIS C. HALL.
C. MOORE.
EYE-SIRUP.

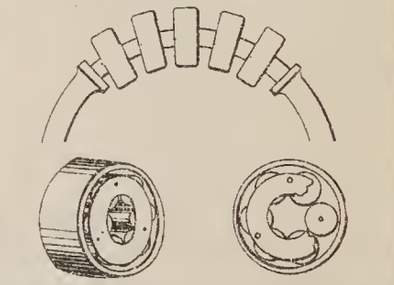
93,301, S. R. HATHORN.
SLATE AND METAL ROOFING.



93,302, JOS. HINDEMYER.
CHARLES C. SAVERY.
WATER-COOLER AND REFRIGERATOR.

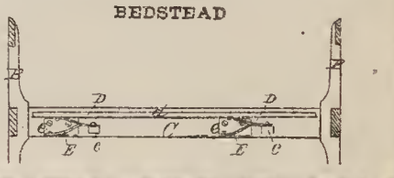


93,303, BENJAMIN H. HUSSEY.
ANTI-FRICTION MAST-HOOP.

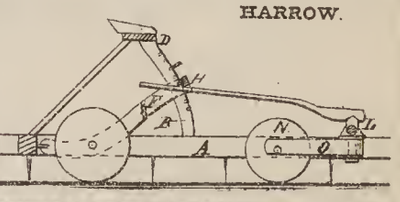


93,304. C. B. HUTCHINS.
COMPOSITION FOR ROOFING AND PAINT.

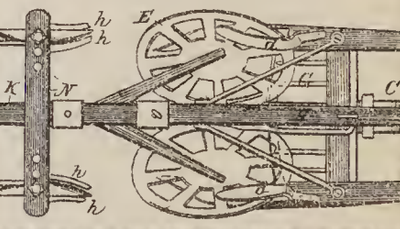
93,305. HANFORD INGRAHAM.
BEDSTEAD



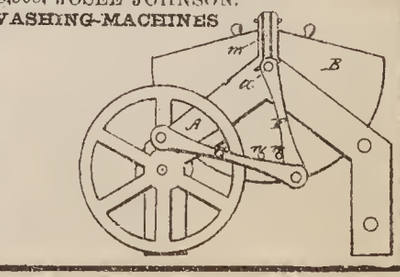
93,306. JOEL COPPOCK. JOHN JAY.
HARROW.



93,307, MOSES JOHNSON **POTATO-DIGGER AND CULTIVATOR COMBINED.**



93,308, JOSEE JOHNSON.
WASHING-MACHINES



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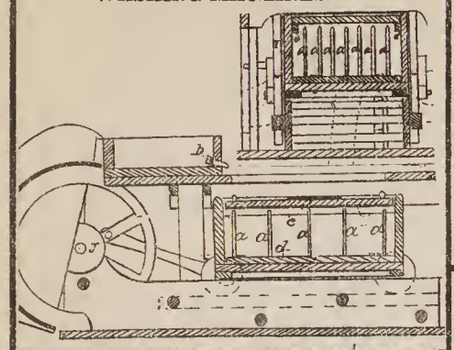
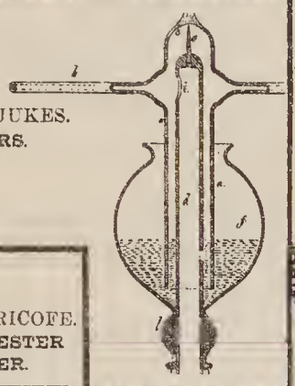
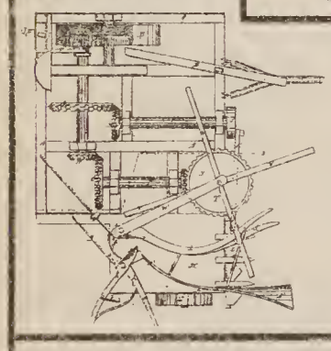
WASHING-MACHINES.



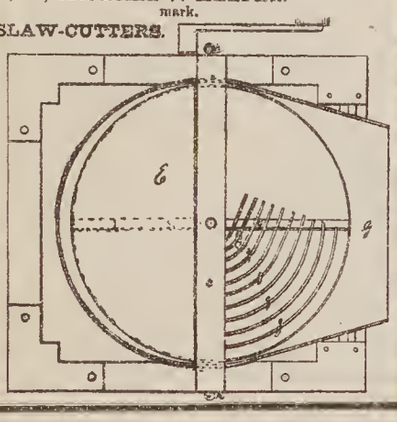
93,310.
WESLEY L. JUKES.
GAS-BURNERS.



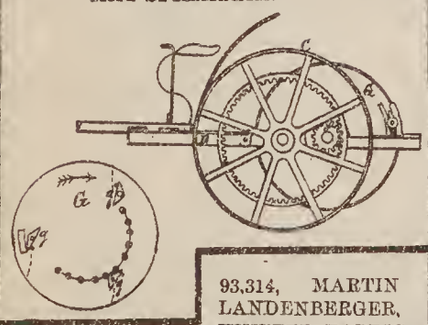
93,311,
WM. H. KARICOFE.
CORN-HARVESTER AND SHOCKER.



93,312, MICHAEL his × mark. KEEFER.
SLAW-CUTTERS.



93,313, WM. G. KENYON.
HAY-SPREADERS.



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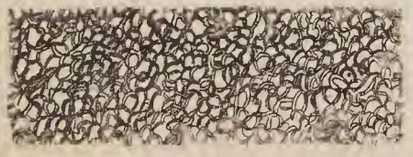
KNITTED FABRIC.



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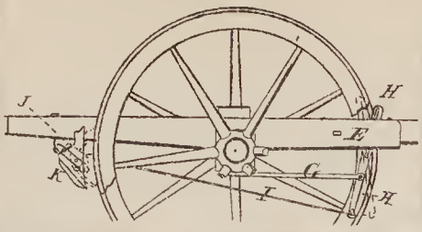
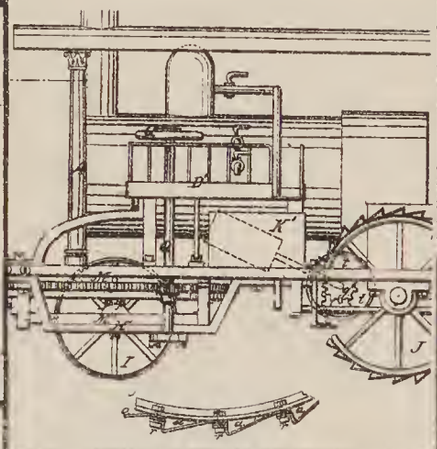
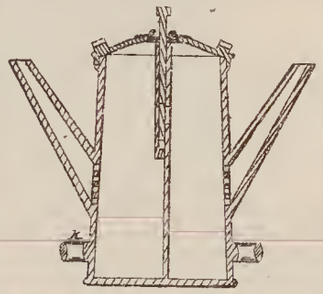
WAGON-BRAKES.



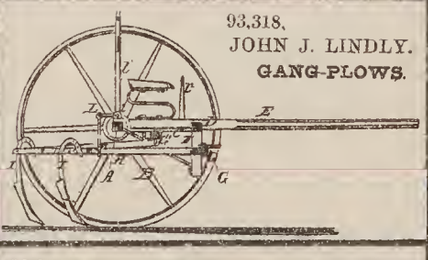
93,316, DANIEL F. LEACH.
FARM-LOCOMOTIVE.



93,317, JOHN E. LEWIS.
COFFEE-POTS.



93,318,
JOHN J. LINDLY.
GANG-PLOWS.



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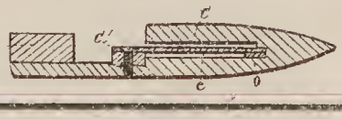
HARVESTER-CUTTERS.



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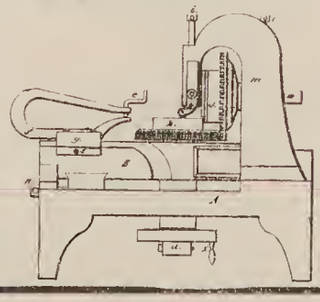
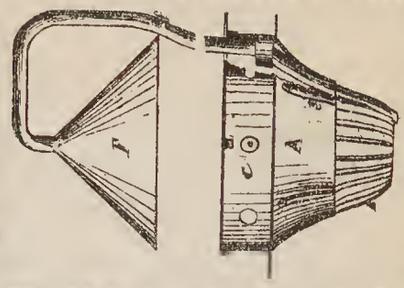
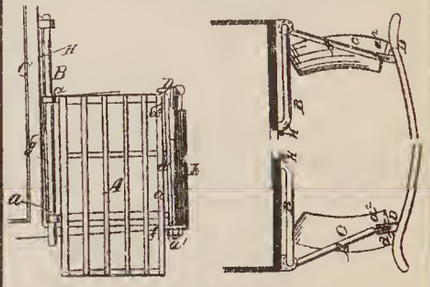
FLANGING-MACHINE.



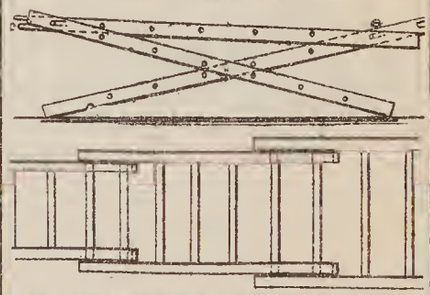
93,321.
JAMES H. LYON. DANIEL BREED.
WILSON AGER. WM. H. SEAMAN.
PORTABLE SUMMER-FURNACES.



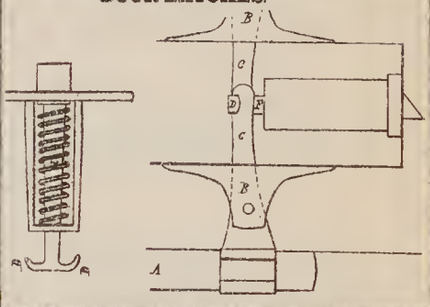
93,322, JOHN F. MADISON.
HENRY McLAUGHLIN.
STREET-CARS.



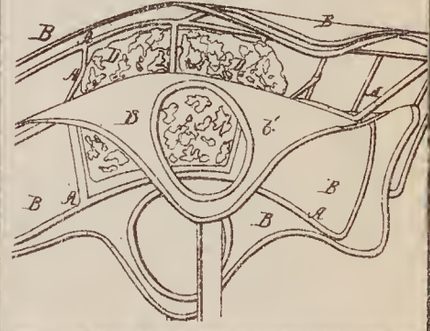
93,323, HENRY B. MALBONE.
CONVERTIBLE LADDER.



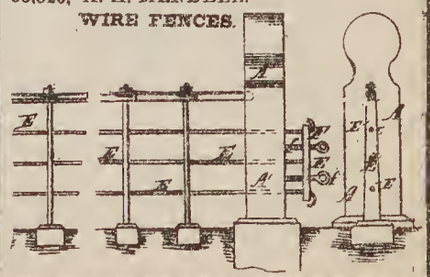
93,324, EMMONS MANLEY.
DOOR-LATCHES.



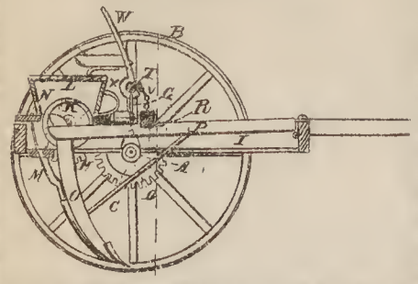
93,325, J. L. McINTOSH.
SUN-SHADES FOR HORSES.



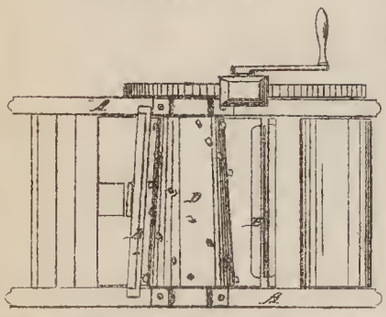
93,326, A. H. MENDELL.
WIRE FENCES.



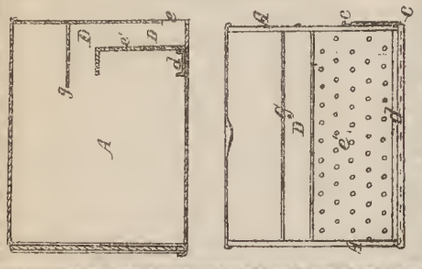
93,327, SOLOMON MICKLEY.
SAMUEL LEATHERY.
SEED-DRILLS.



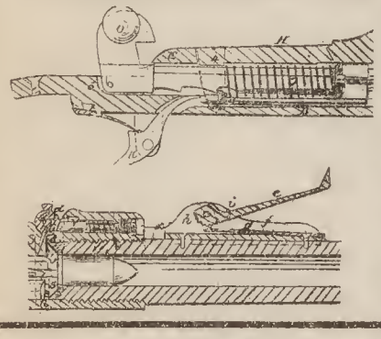
93,328, WILLIAM MILLER.
CORN-SHELLERS.



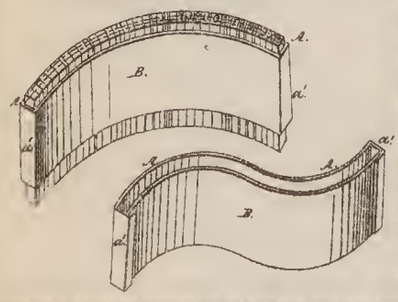
93,329, A. C. MILLS. FLY-TRAP.



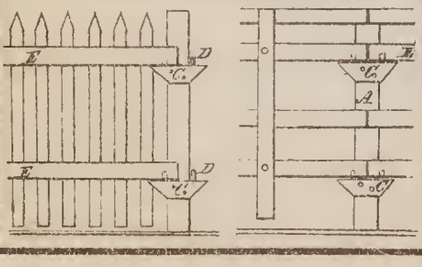
93,330, WILLIAM MORGENSTERN.
BREECH-LOADING FIRE-ARMS.



93,331, CHAS. N. MORRIS.
PRINTERS' RULES.

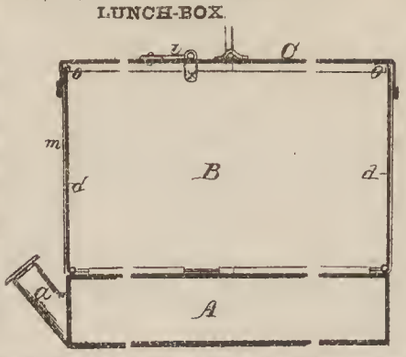


93,332, ISAAC J. MORROW. FENCE.

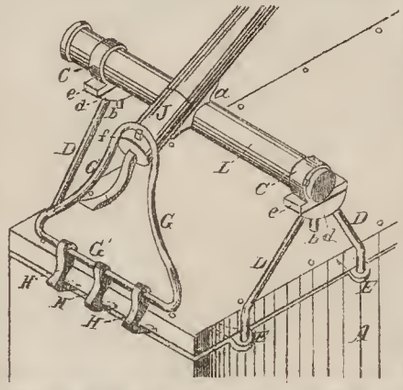


93,333, F. NEIDHARDT.
ROOFING-COMPOSITION

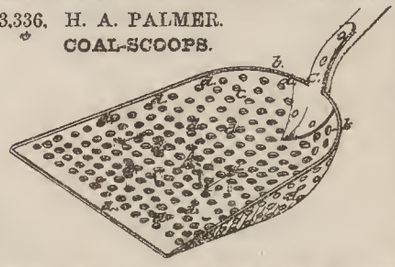
93,334, ADDISON NORMAN.
LUNCH-BOX.



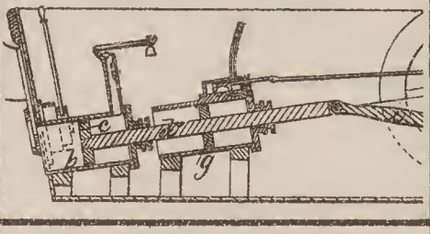
93,335, C. M. O'HARA.
APPARATUS FOR OPENING BOXES.



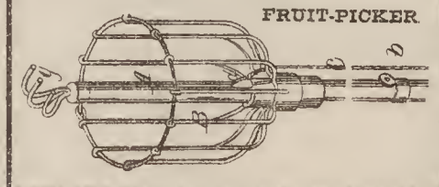
93,336, H. A. PALMER.
COAL-SCOOPS.



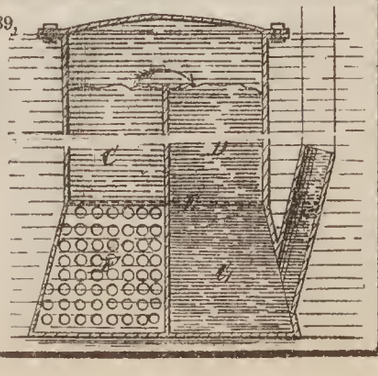
93,337, JOSEPH PARADIS.
PROPELLING-APPARATUS.



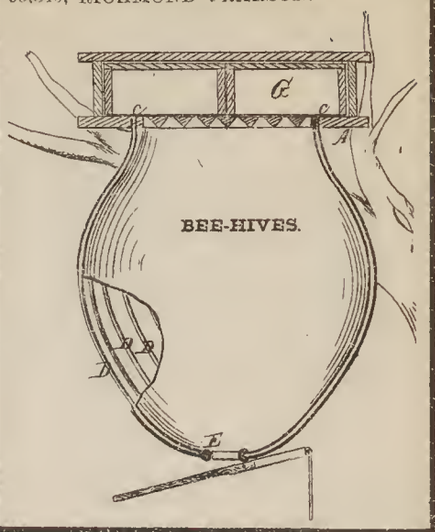
93,338, GEORGE J. PARHAM.
FRUIT-PICKER.



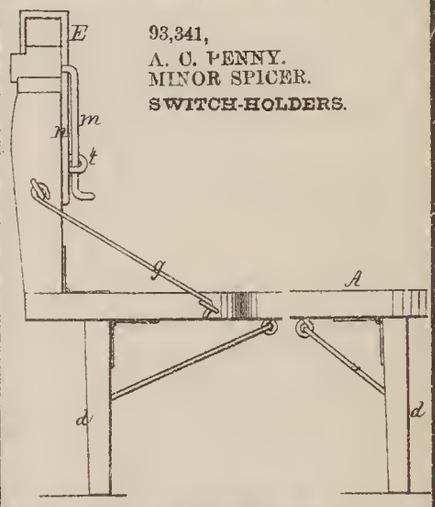
93,339, J. D. PARROT.
FILTERS.



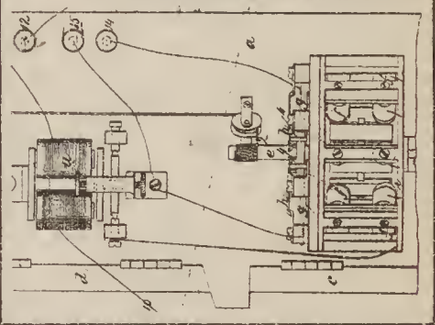
93,340, RICHMOND PEARSON.
BEE-HIVES.



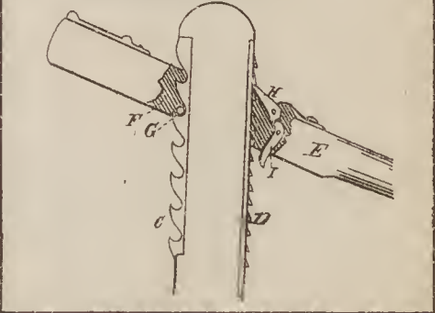
93,341,
A. C. PENNY.
MINOR SPICER.
SWITCH-HOLDERS.



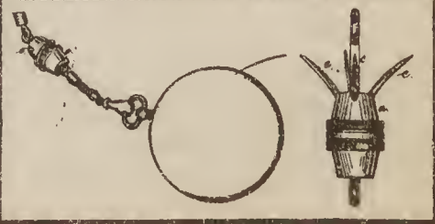
93,342, GEO. M. PHELPS.
ROBERT STEWART.
ELECTRICAL RAILROAD-SIGNAL.



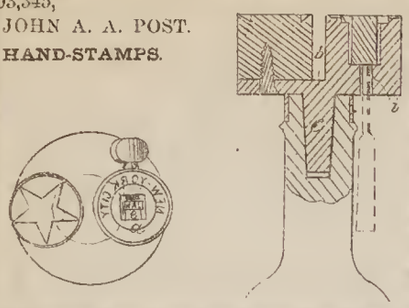
93,343, CHARLES J. PHILLEO.
CARRIAGE-JACKS.



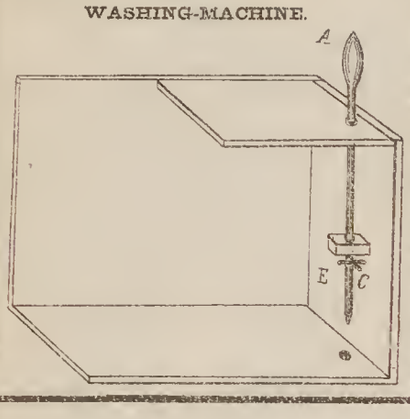
93,344, MORRIS POLLAK. SAFETY-ATTACHMENTS FOR WATCH-CHAINS.



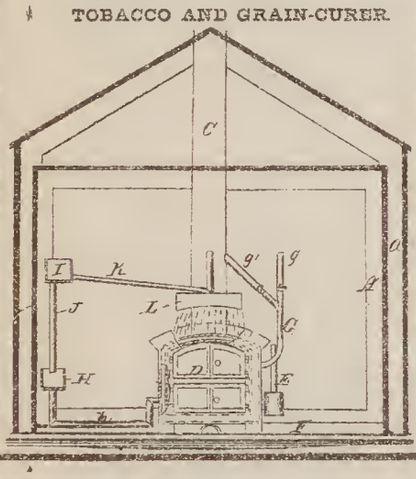
93,345, JOHN A. A. POST.
HAND-STAMPS.



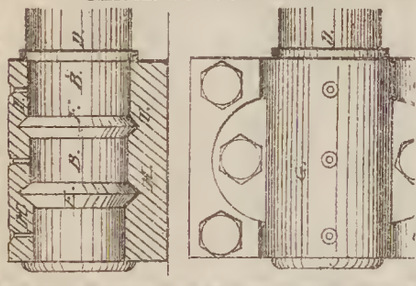
93,346. JOHN RINGEN.
WASHING-MACHINE.



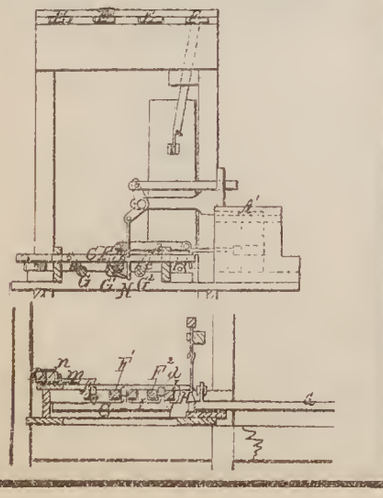
93,347. HENRY R. ROBBINS.
TOBACCO AND GRAIN-CURER.



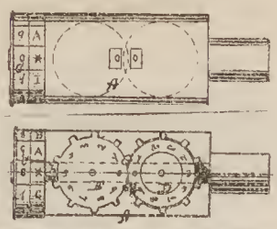
93,348. OBY ROBIRDS. **RAILWAY-CAR-AXLE JOURNAL AND BOX.**



93,349, WILLIAM ROBJOHN. **ORGANS.**



93,350. THOMAS ROSSITER.
ADDING-MACHINE.



93,351, SILAS O. SALISBURY.
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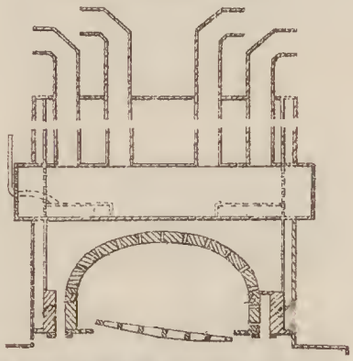

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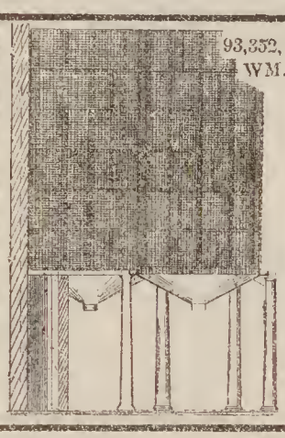

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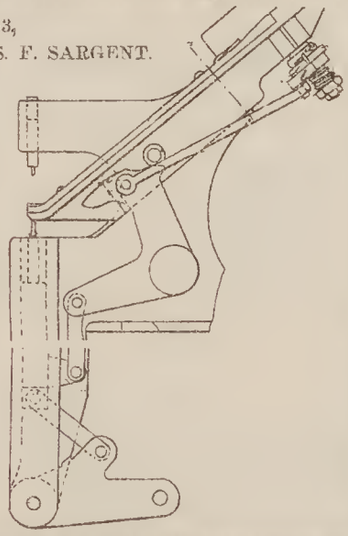

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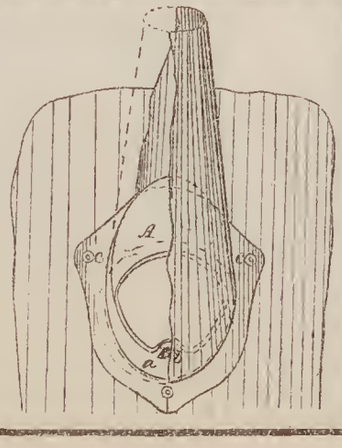
KETTLE-SPOUT ATTACHMENT.



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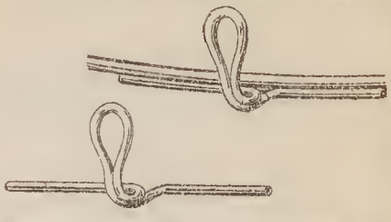

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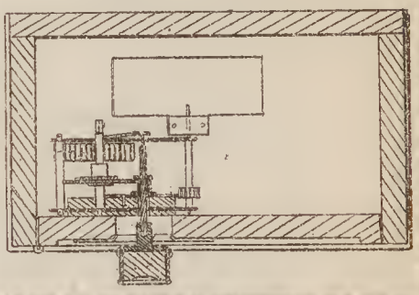

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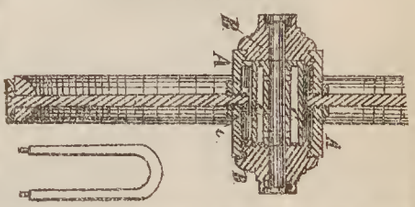

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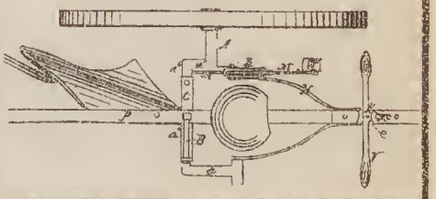
SULKY-PLOWS.



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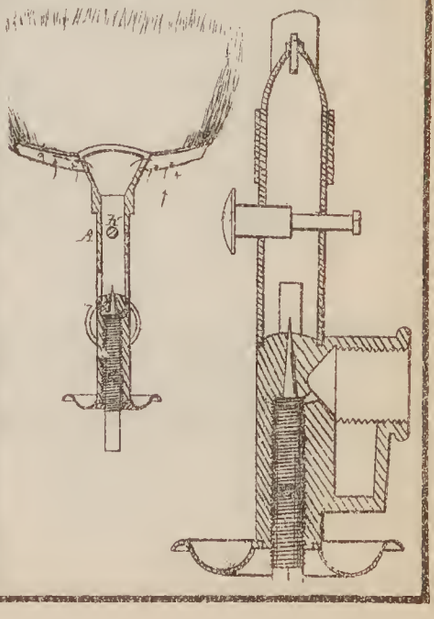
DOOR-SPRING.

93,360, W. H. SMITH.
IMPROVEMENT IN VAPOR-BURNERS.



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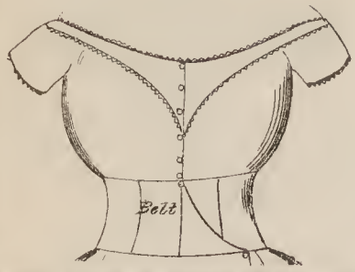
MRS. R. L. JONES.
LADIES' CHEMISE



93,391. EDWARD A. LOCKE.
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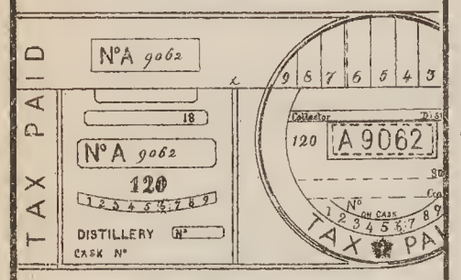

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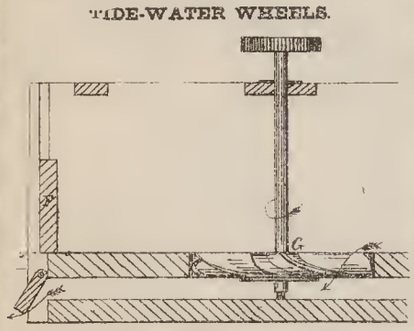
TIDE-WATER WHEELS.



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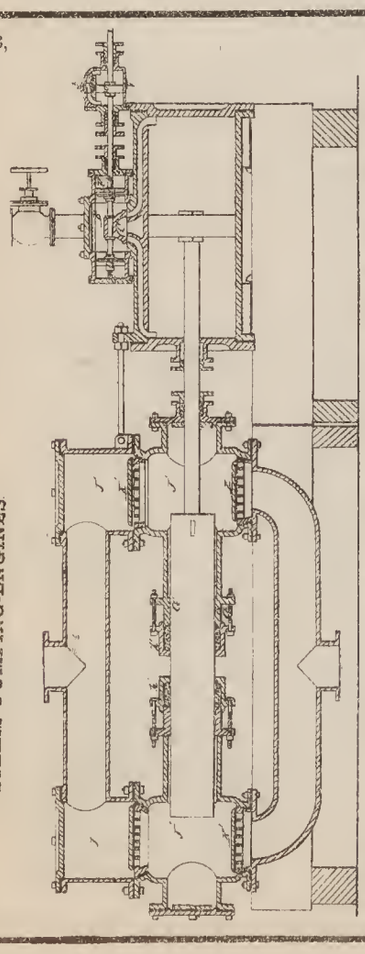

ROBT. ALLISON.
STEAM PUMPING-ENGINES.

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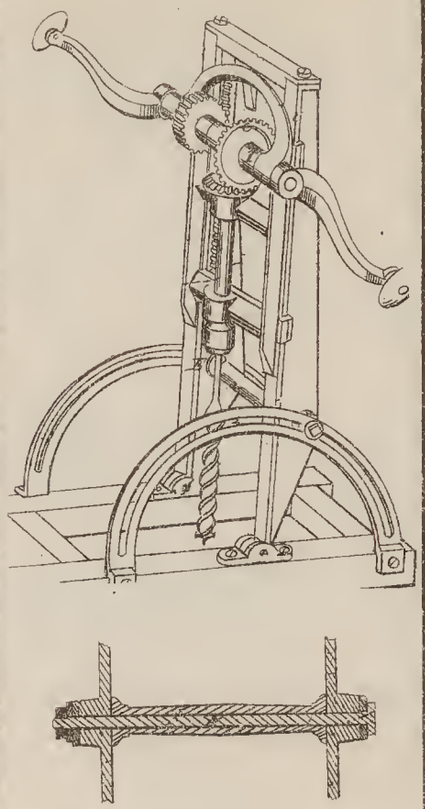
EMORY L. BATES.
BORING-MACHINE.



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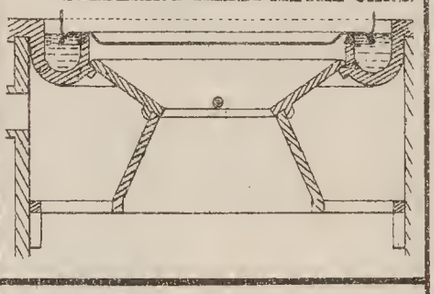
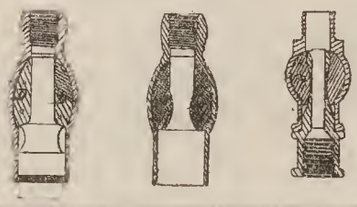
GEO. W. DEVOE.
SOLDERING SHEET-METAL CANS.

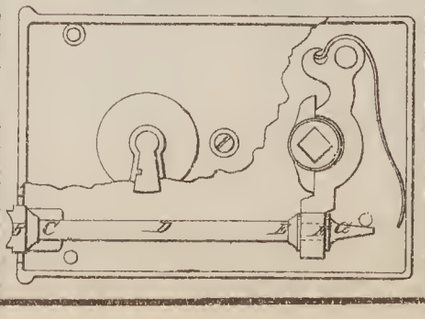


3,576. LEWIS FRANCIS.
CYRUS H. LOUTREL
COMPOSITION OF MATTER.

3,577, ELLIOTT P. GLEASON.
SOCKET-COUPLINGS.

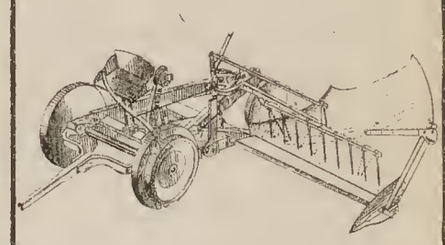


3,578, MILES GREENWOOD.
PHILIP Y. BROWN.
WILLIAM M. GREENWOOD.
REVERSIBLE KNOB-LATCHES.



3,579. NATHANIEL JENKINS.
IMPROVEMENT IN THE MANUFACTURE OF ELASTIC PACKING.

3,580, JOHN P. MANNY, HARVESTERS.



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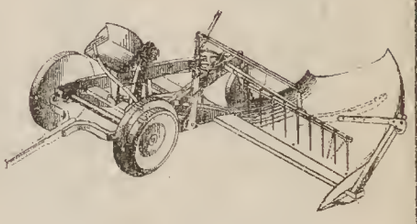
HARVESTERS.



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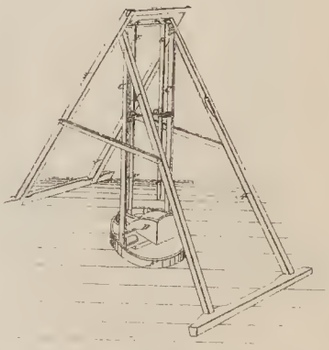

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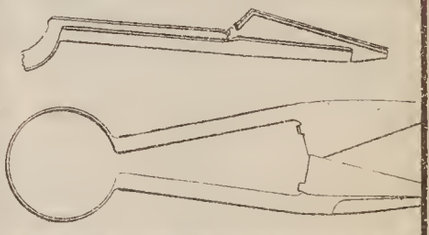
MANUFACTURE OF SHEEP-SHEARS.



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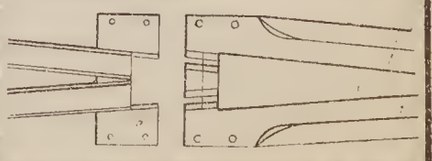

ILLUSTRATIONS OF PATENTS

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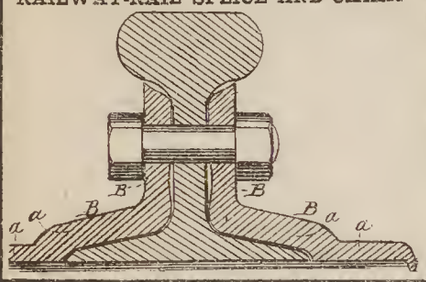
93,393, THOMAS J. ADAMS.
RAILWAY-RAIL SPLICE AND CHAIR.



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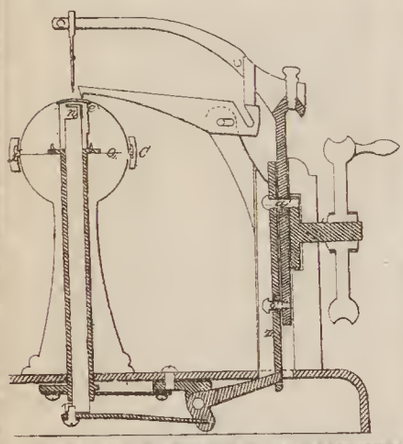
MACHINE FOR MENDING STOCKINGS.



93,395, THOMAS ATKINSON.
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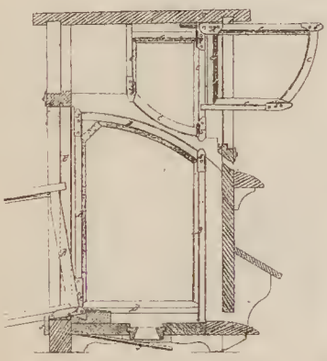

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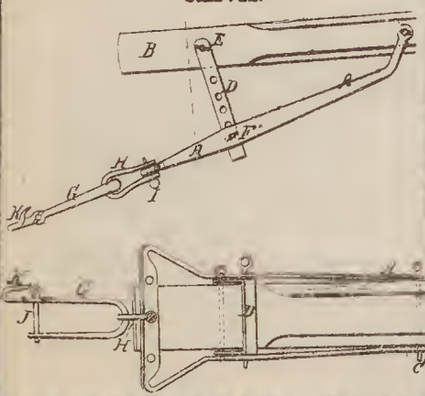

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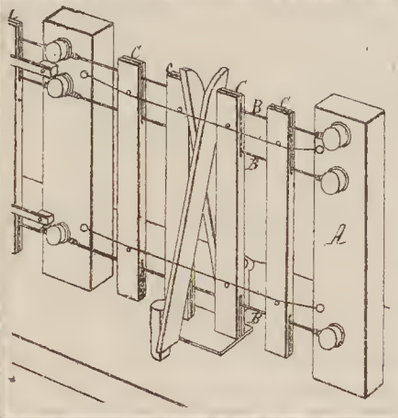

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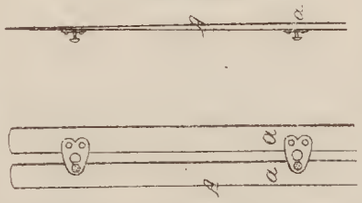
FLOOD-FENCE.

93,399, FRANCES LEE BARNES.
FRANCES LEE BARNES,
CORSET-STEELS.



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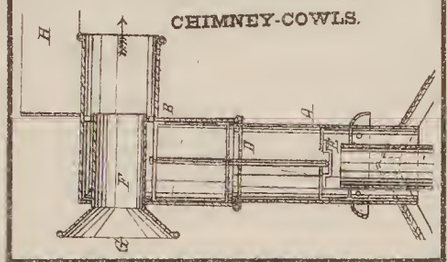

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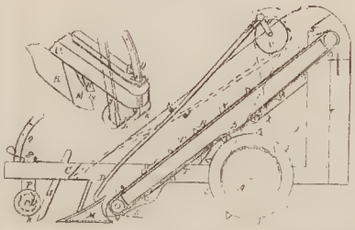

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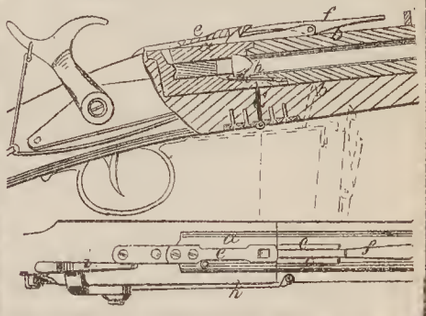
93,403, JOHN D. BLAKER.
BREECH-LOADING FIRE-ARMS.



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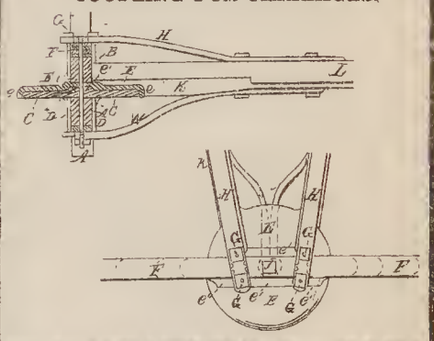

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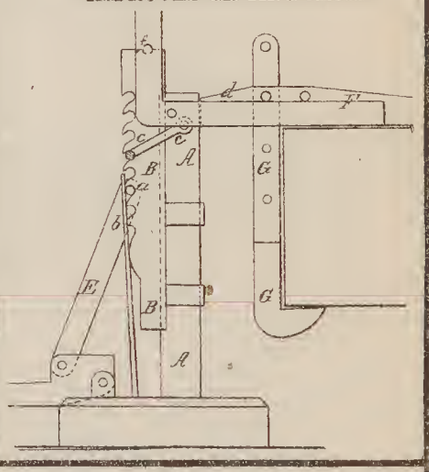
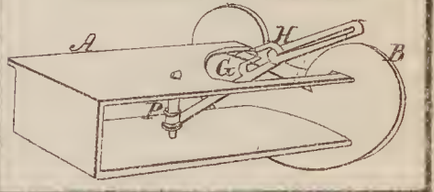
IMPROVED LIFTING-JACK.

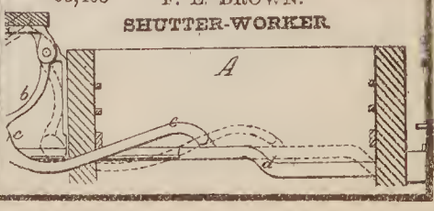


93,406, EDWARD BRADY.
MANUFACTURE OF IRON.

93,407, HENRY F. BRENEMAN.
RAILWAY-CAR COUPLING.



93,408 F. E. BROWN.
SHUTTER-WORKER.



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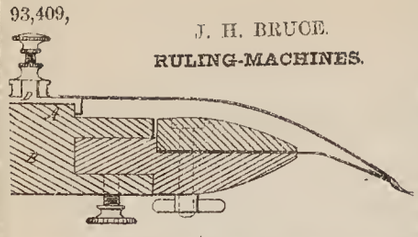
RULING-MACHINES.



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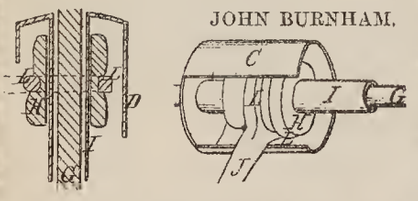
INSULATORS FOR LIGHTNING-RODS.
JOHN BURNHAM.



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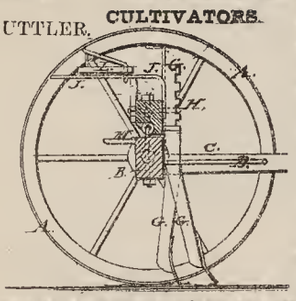
COMPOUND OIL FOR PRODUCING GAS.

NATHAN BUTTLER. CULTIVATORS.
93,412,



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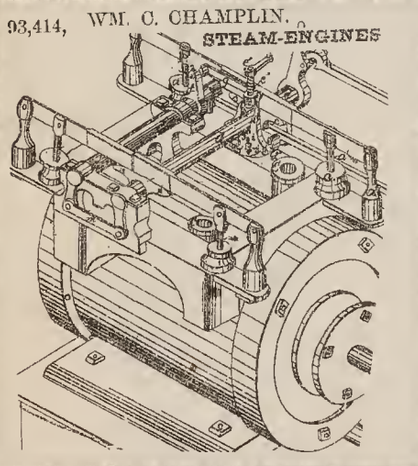
MAKING CORUNDUM-WHEELS.

93,414, WM. C. CHAMPLIN.
STEAM-ENGINES



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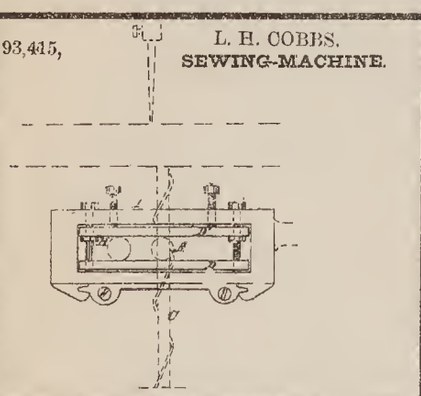
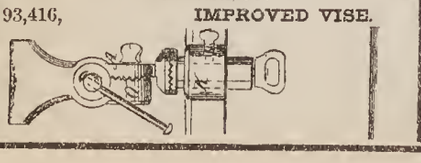
SEWING-MACHINE.



IRA COGSWELL, JR.
93,416, IMPROVED VISE.



93,417, HUDSON W. CONKLING.
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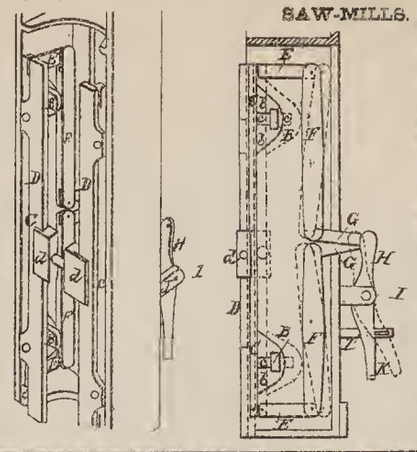

93,418, SAMUEL B. CRANFORD.
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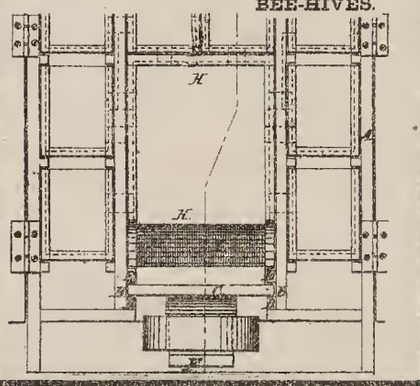
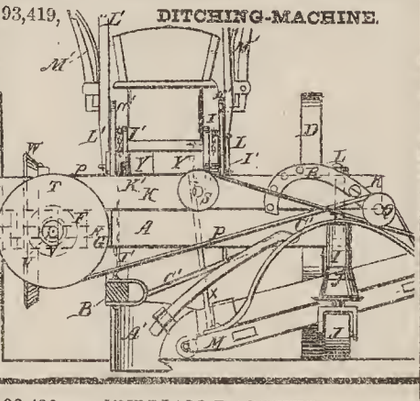
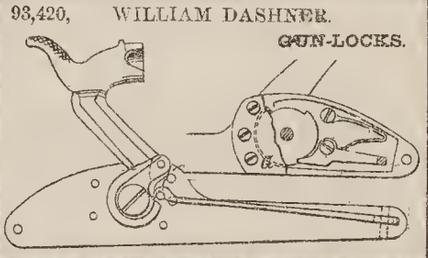


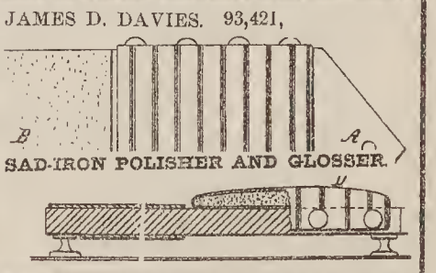
WILSON CRAWFORD.
93,419, DITCHING-MACHINE.



93,420, WILLIAM DASHNER.
GUN-LOCKS.

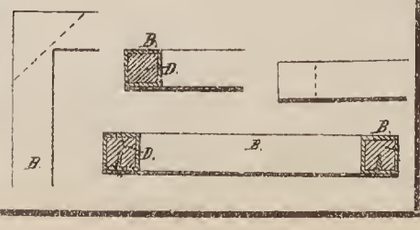


JAMES D. DAVIES. 93,421,

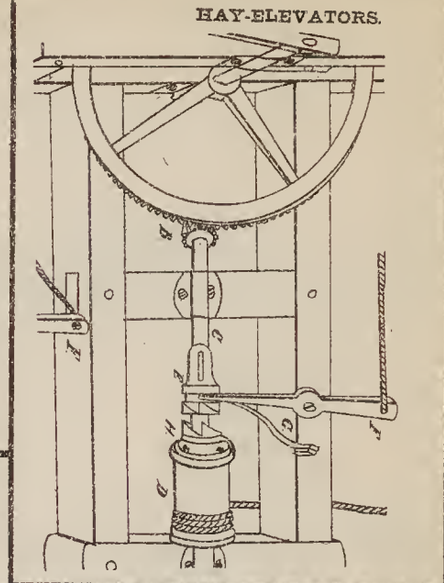


SAD-IRON POLISHER AND GLOSSER.

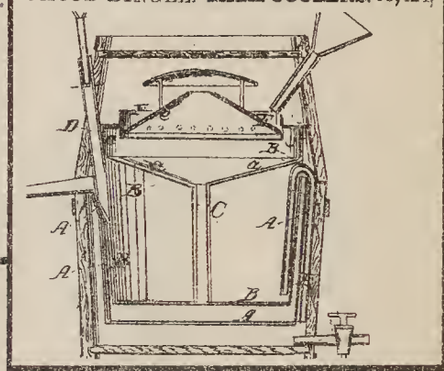
93,422, ALEXANDER T. DE PUY.
PRINTERS' GALLEYS.



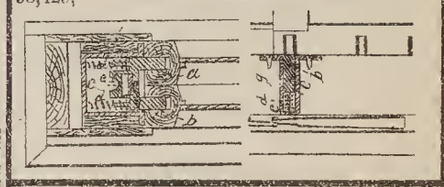
93,423, WILLIAM DERR.
HAY-ELEVATORS.



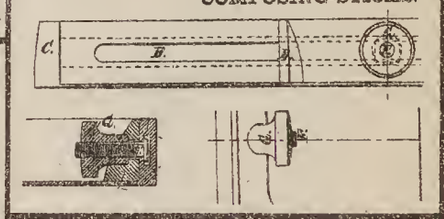
JACOB DINGEE. MILK-COOLERS. 93,424,



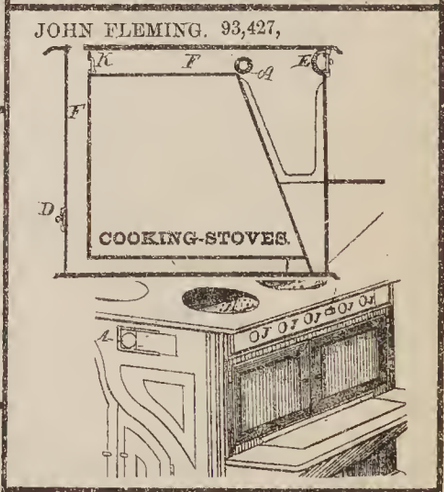
93,425, SAMUEL EASTER. SASH-LOCK.



93,426, JOHN M. EATON.
COMPOSING-STICKS.



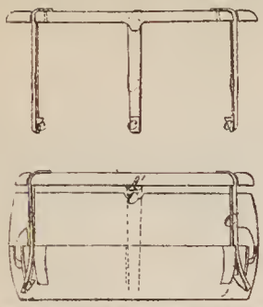
JOHN FLEMING. 93,427,



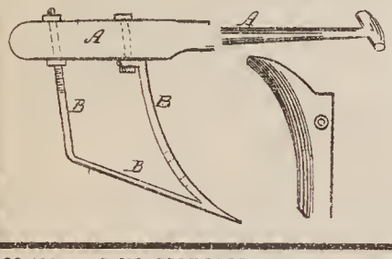
COOKING-STOVES.

93,428, JACOB AUGUSTUS FOLSOM.
SPURS FOR EXCELSIOR-MACHINES.

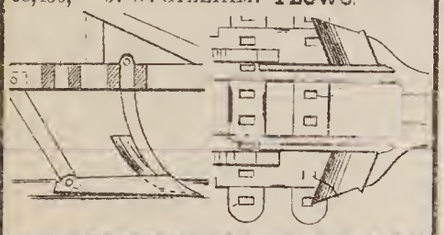
93,429, CYRUS G. FRENCH.
FLASKS FOR VULCANIZING RUBBER PLATES FOR SETTING TEETH.



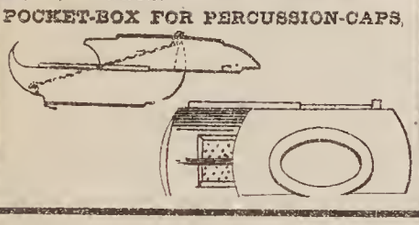
93,431, WM. GOWEN. HAND-PLOW.



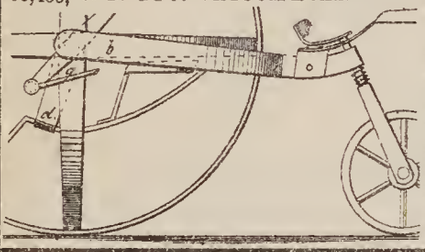
93,430, J. W. GILLIAM. PLOWS.



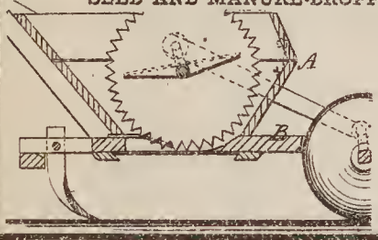
93,432, G. GROS.
POCKET-BOX FOR PERCUSSION-CAPS.



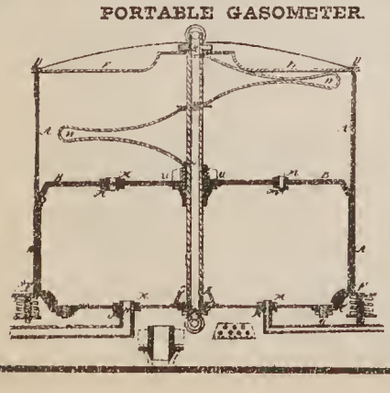
93,433, C. B. GUY. VELOCIPEDES.



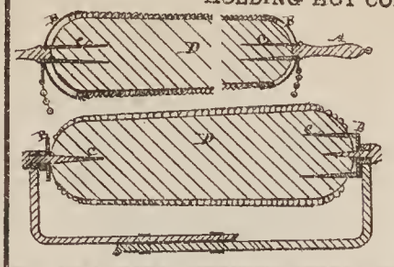
93,434, JOHN G. HAM.
SEED AND MANURE-DROPPER.



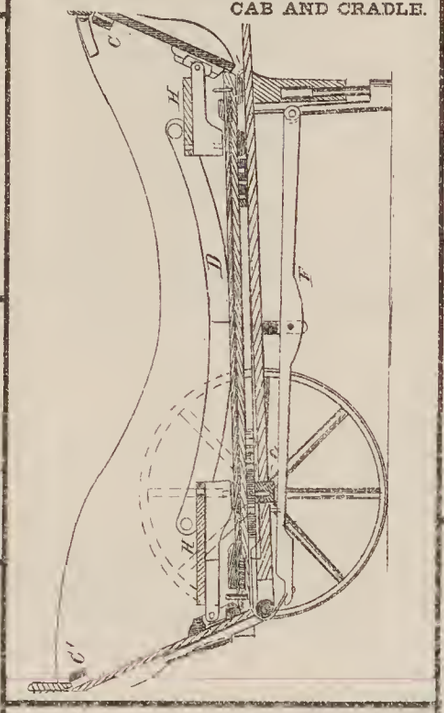
93,435, J. HENRY HAYWARD.
PORTABLE GASOMETER.



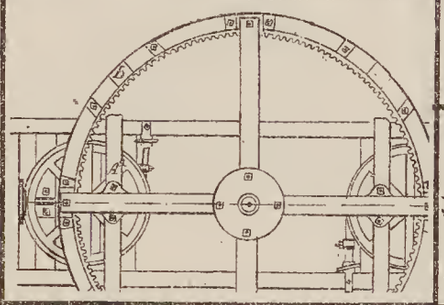
93,436, HENRY HEBBARD.
FINGER-GUARD FOR HOLDING HOT CORN.



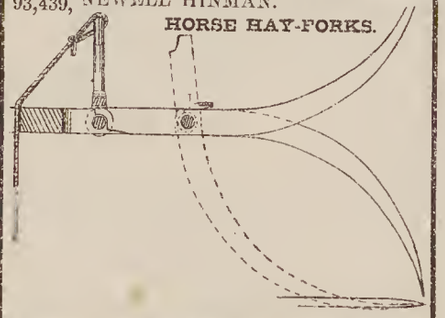
93,437, GEO. H. HENKEL.
CAB AND CRADLE.



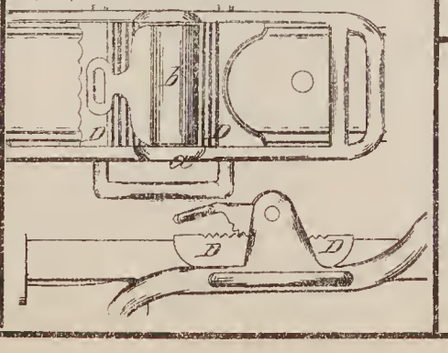
93,438, JOHN HEUERMANN.
HORSE-POWER.



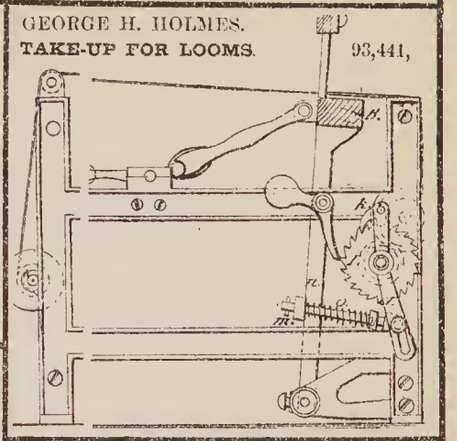
93,439, NEWELL HINMAN.
HORSE HAY-FORKS.



93,440, JOHN P. HISLEY. BUCKLES.

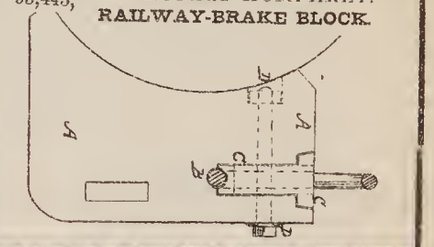


GEORGE H. HOLMES.
TAKE-UP FOR LOOMS. 93,441,

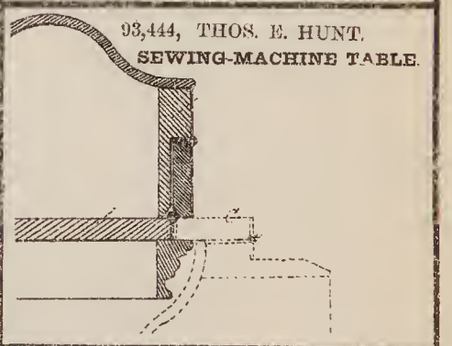


93,442, JULIUS HUBBARD.
LAMP-BURNERS.

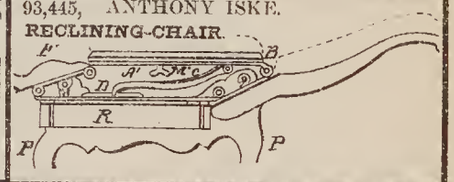
93,443, ROBERT HUMPHREY.
RAILWAY-BRAKE BLOCK.



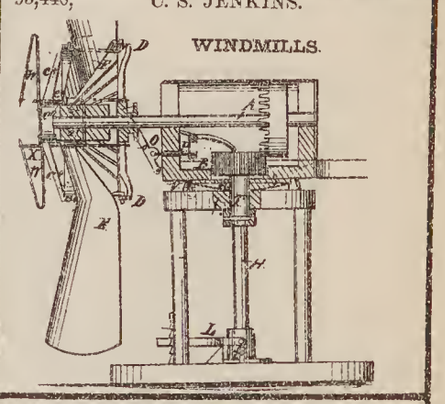
93,444, THOS. E. HUNT.
SEWING-MACHINE TABLE.



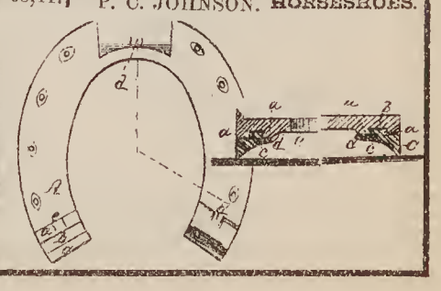
93,445, ANTHONY ISKE.
RECLINING-CHAIR.



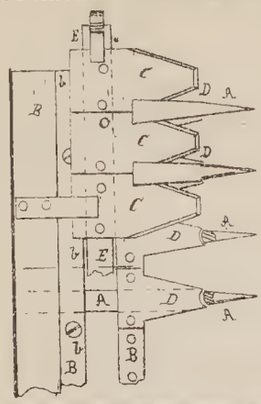
93,446, C. S. JENKINS.
WINDMILLS.



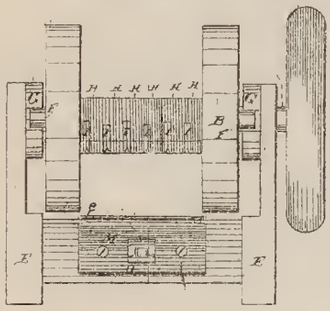
93,447, P. C. JOHNSON. HORSESHOES.



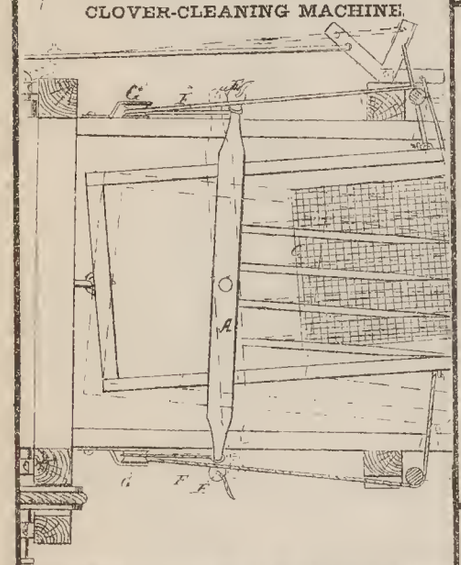
93,448, BENJN. JOHNSON.
WILLIAM JOHNSON.
CUTTER-BAR FOR HARVESTERS



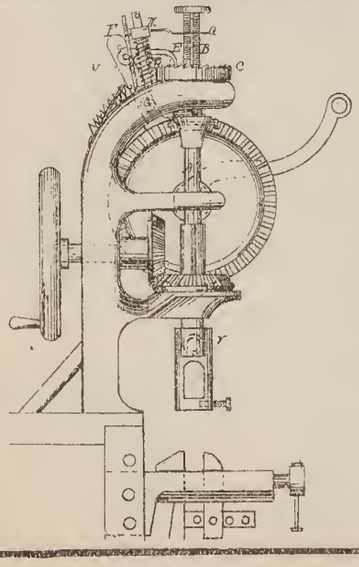
93,449, HORACE K. JONES.
MACHINE FOR GRADUATING CARPENTERS' SQUARES.



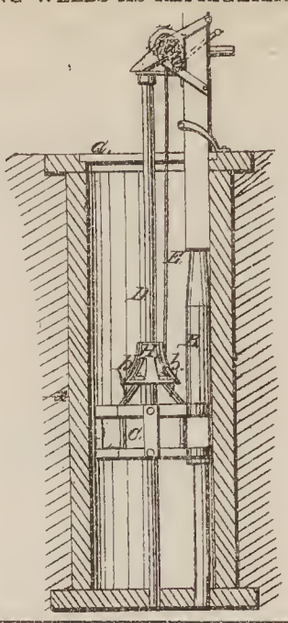
93,450, EBENEZER L. KELLY.
GRAIN-SEPARATORS AND CLOVER-CLEANING MACHINE.



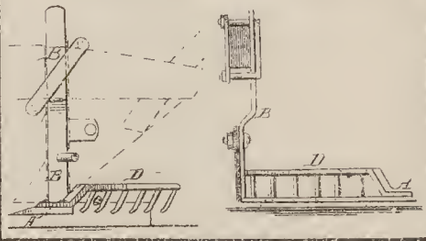
93,451, J. A. KIRKPATRICK.
G. W. HORNBY.
APPARATUS FOR DRILLING METAL.



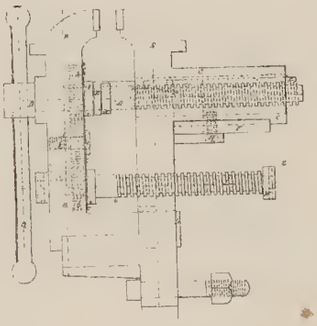
93,452, JACOB J. KISER.
UTILIZING WELLS AS REFRIGERATORS.



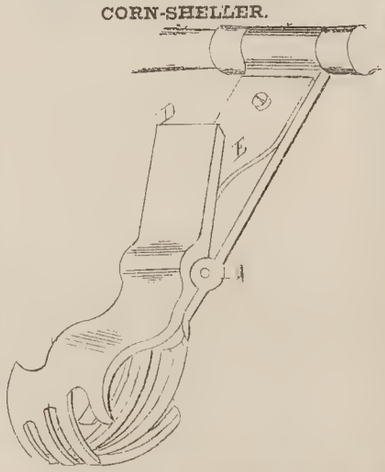
93,453, P. G. KLEINPETER.
CANE AND STUBBLE-SHAVER.



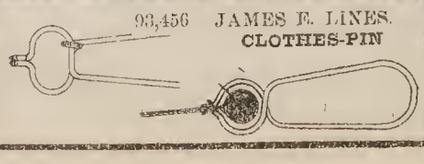
93,454, JAMES LARKIN.
IMPROVED VISE.



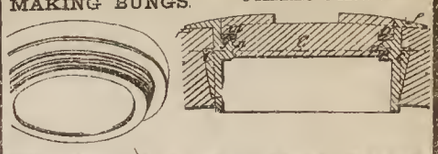
93,455, W. D. LEAVITT.
CORN-SHELLER.



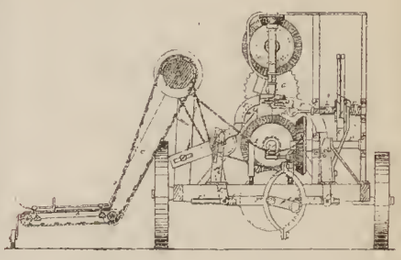
93,456 JAMES E. LINES.
CLOTHES-PIN



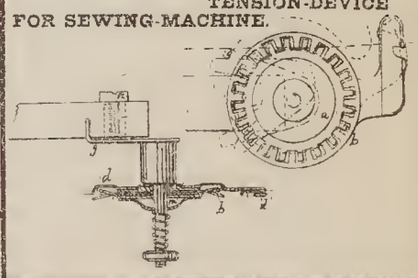
93,457, WM. LONG.
JAMES GARAND.
MAKING BUNGS.



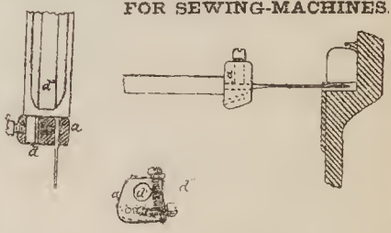
93,458, WILLIAM LOTTRIDGE
GRAIN-BINDERS.



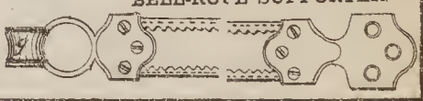
93,459, T. A. MACAULAY.
TENSION-DEVICE FOR SEWING-MACHINE.



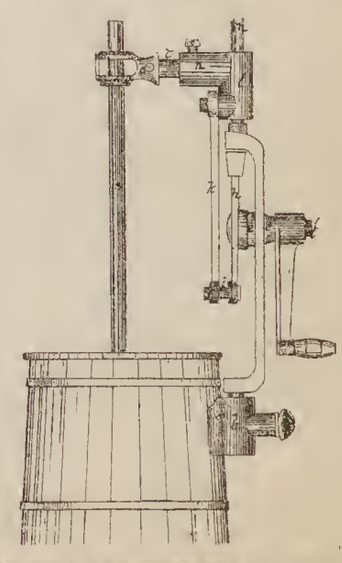
93,460, T. A. MACAULAY
NEEDLE-HOLDING BLOCK FOR SEWING-MACHINES.



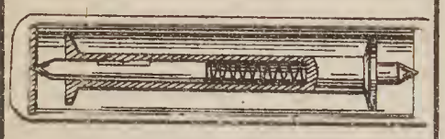
93,461, W. C. MARSHALL.
BELL-ROPE SUPPORTER.



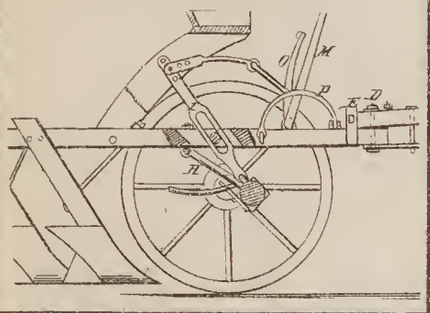
93,462. JAMES McELROY.
CHURNS.



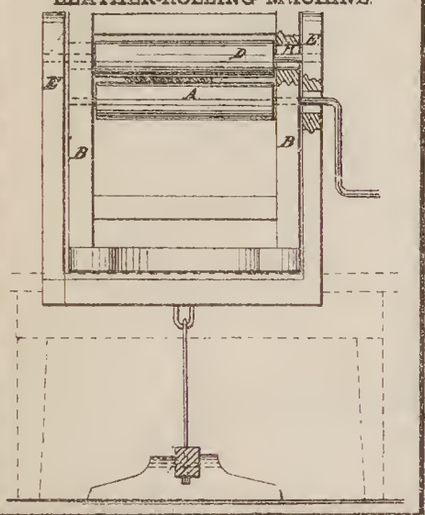
93,463, R. S. MERSHON.
BOBBIN FOR SEWING-MACHINE SHUTTLES.



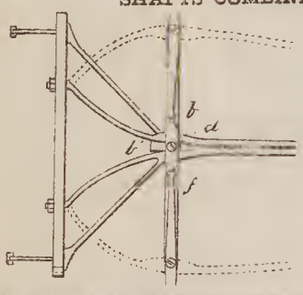
93,464, M. MICKELSON.
TRUCK-PLOWS.



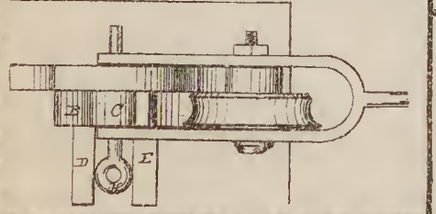
93,465, C. W. MONSON.
LEATHER-ROLLING MACHINE.



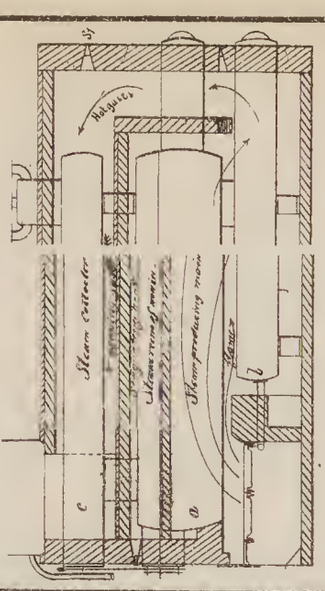
AUGUSTUS MOORE.
93,466, JOHN AYLWERD.
CARRIAGE-POLES AND SHAFTS COMBINED.



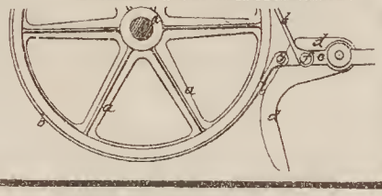
93,467. D. G. MORRIS.
MACHINE FOR BENDING CAR-HOOKS.



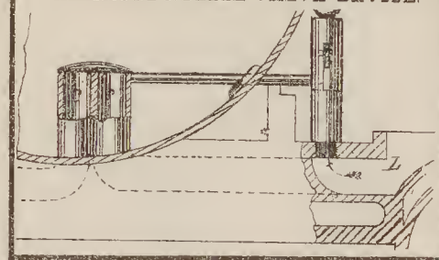
93,468, F. MÖRTH.
FURNACE AND STEAM-GENERATORS.



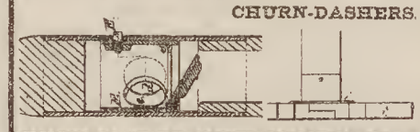
93,469, ROBERT DAVID NAPIER.
BRAKE FOR MACHINERY.



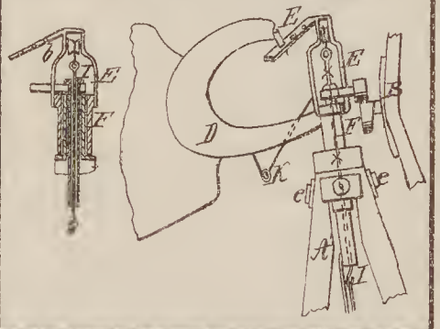
A. ONSLOW. 93,470,
EXHAUST-NOZZLE-VALVE DEVICE.



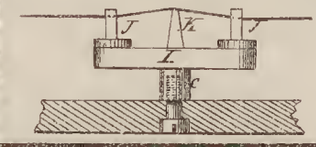
93,471, D. K. OVERHISER.
CHURN-DASHERS.



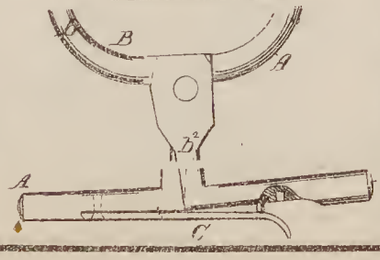
93,472, P. C. PERKINS. **WINDMILLS.**



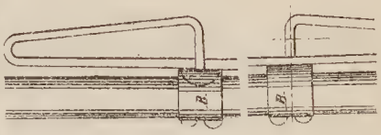
93,473, **PIANO-FORTES.**
CHARLES A. PETERSON.



93,474, W. GRAY PHILLIPS.
POLICE-NIPPERS.



93,475, L. C. PRINDLE.
NEWSPAPER-FILES.

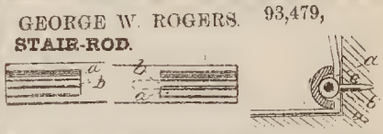


93,476, C. H. PROESSDORF.
E. BAUCH.
WOVEN HOSE FOR WATER, &c.

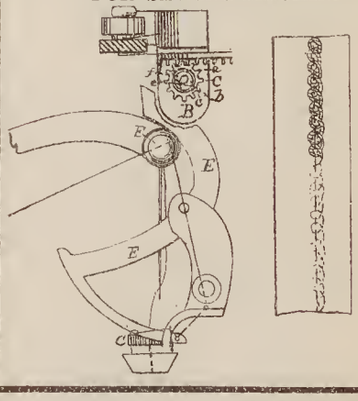
93,477, WM. J. RAND
PROCESS OF PREPARING ICELAND AND IRISH MOSS FOR USE IN FOOD.

93,478, WM. J. RAND.
ICELAND MOSS AND CARRAGEEN.

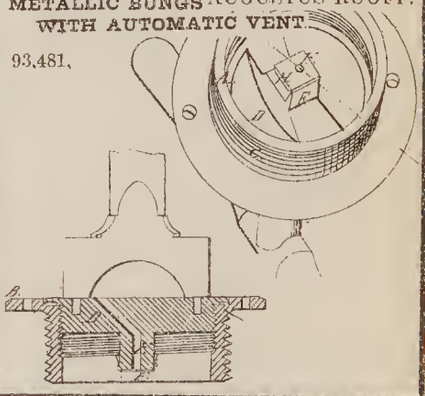
GEORGE W. ROGERS. 93,479,
STAIR-ROD.



93,480, I. M. ROSE.
EMBROIDERING-ATTACHMENT FOR SEWING-MACHINES.

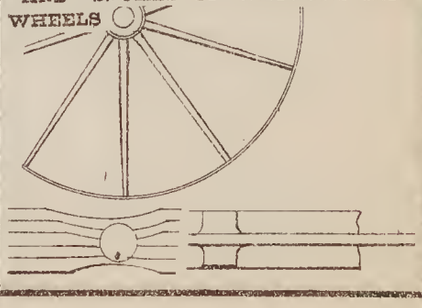


METALLIC BUNGS WITH AUTOMATIC VENT. AUGUSTUS RUOFF.
93,481,

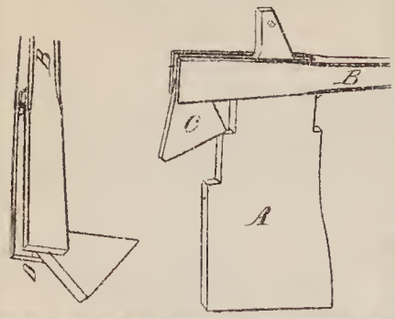


93,482, S. I. RUSSELL.
JAMES H. COLE.
ROOFING-COMPOSITION.

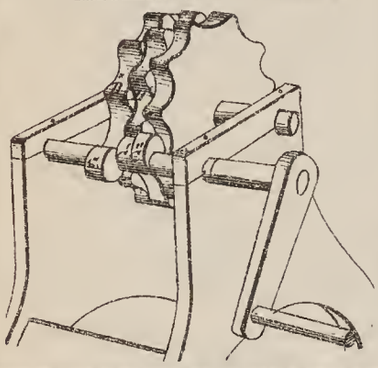
THOMAS RYAN. 93,483,
PROCESS FOR FORMING THE HUB AND SPOKES OF WROUGHT-IRON WHEELS.



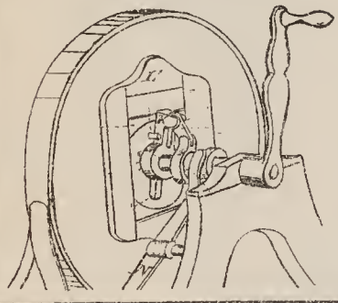
93,484, JOHN F. SEAMAN.
CARRIAGE-JACK.



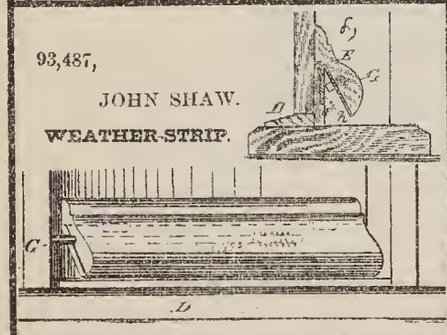
93,485, HENRY F. SHAW.
MECHANICAL MOVEMENT.



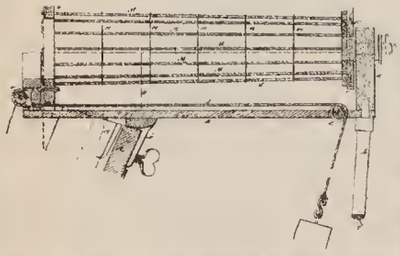
93,486, HENRY F. SHAW
IMPROVED CLUTCH.



93,487,
JOHN SHAW.
WEATHER-STRIP.

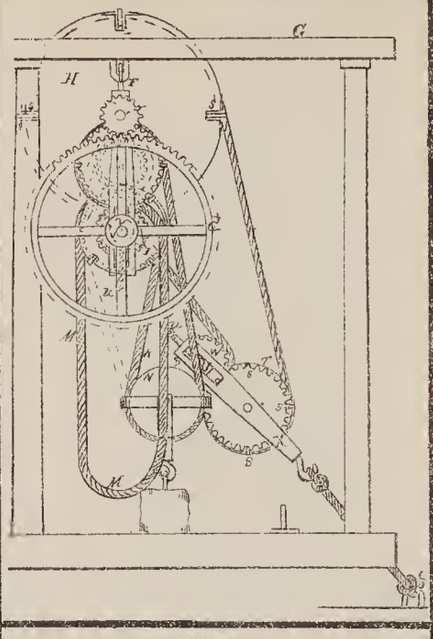


93,488, GILBERT SMITH.
CLOTHES-WRINGER.

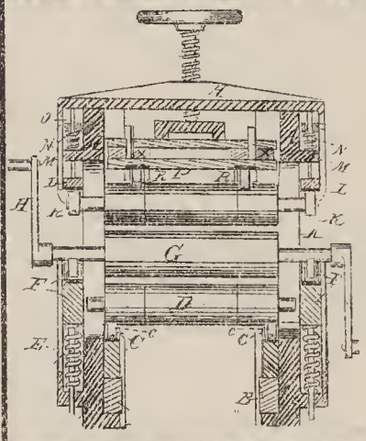


93,489, MARIE T. SMITH.
CORSET-FASTENINGS.

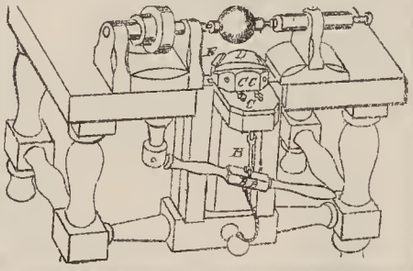
93,490, WILLIAM M. SMITH.
HOISTING-MACHINES.



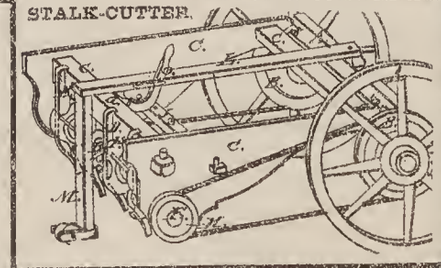
93,491, N. SODERSTROM. MANGLE.



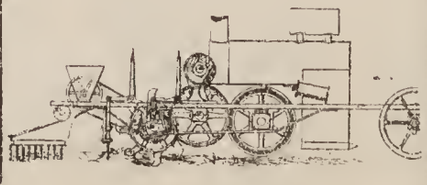
93,492, ISAAC H. SPENCER.
TURNING-LATHES.



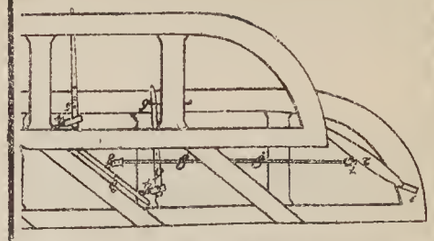
93,493, LUCAS STADLER.
WILLIAM H. STAATS.
AUGUST C. SCHWANKE.
STALK-CUTTER.



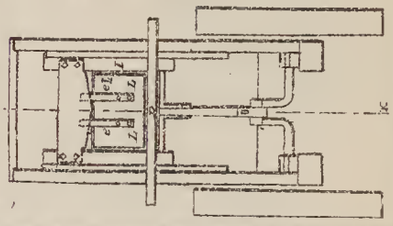
93,494, ANDREW JACKSON STEVENS.
STEAM-CULTIVATOR.



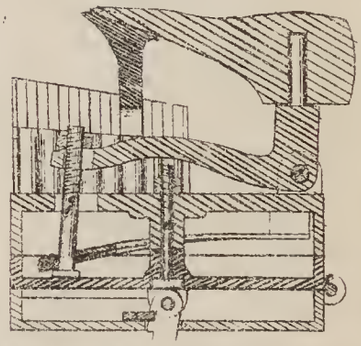
93,495, JAS. B. STOREY.
ISAAC N. ROSS.
SLED-BRAKE.



93,496, DANIEL B. STRONG.
WILLIAM BUSKIRK.
SHINGLE-MACHINE.



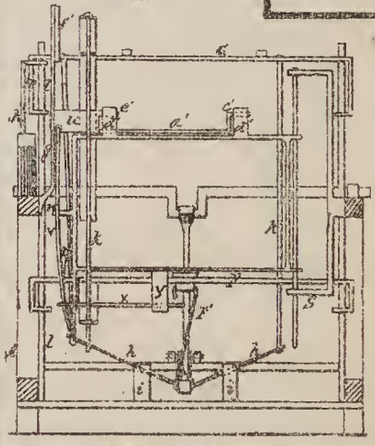
93,497, WILLIAM H. SWEETLAND.
PEGGING-JACKS.



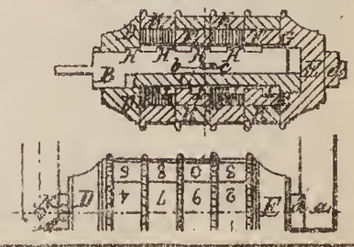
93,498, N. A. THORNTON.
TANNING-COMPOSITION.

93,499,
THEODORE R. TIMBY.
TOILET PIN-CASE.

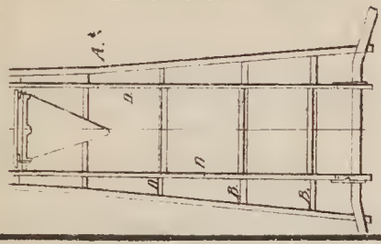
93,500,
WM. TOWNSEND.
LOOMS.



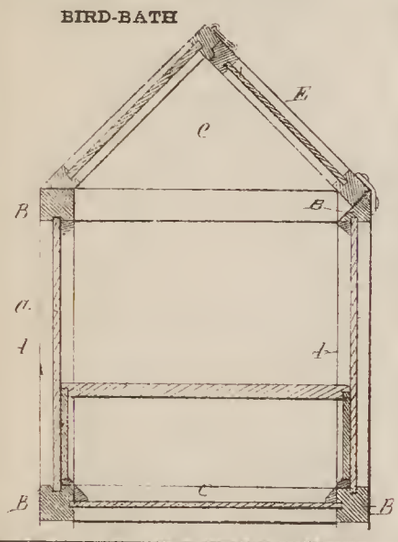
93,501, JOHN E. TREAT.
PERMUTATION-PADLOCKS.



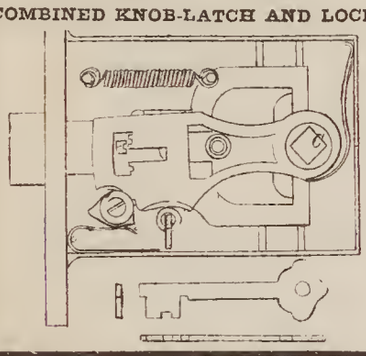
93,502, CALVIN G. UDELL.
EXTENSION-LADDER.



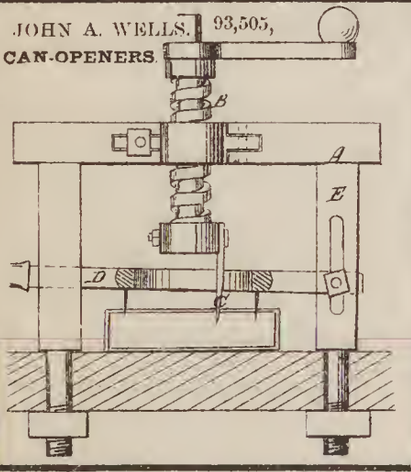
93,503, THOS. W. VAN TASSEL.
BIRD-BATH.



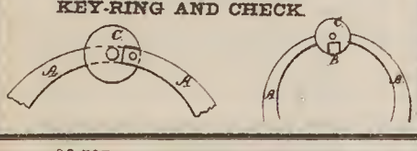
93,504, JOHN H. VICKERS.
COMBINED KNOB-LATCH AND LOCK.



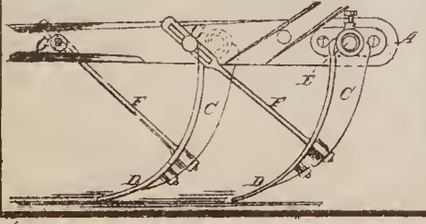
JOHN A. WELLS. 93,505,
CAN-OPENERS.



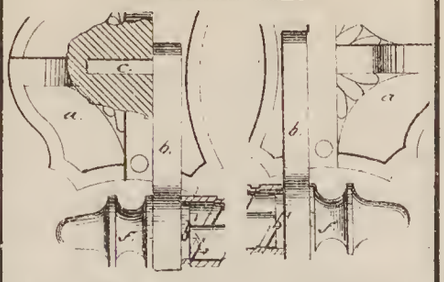
93,506, CHAS. A. WENTWORTH.
KEY-RING AND CHECK.



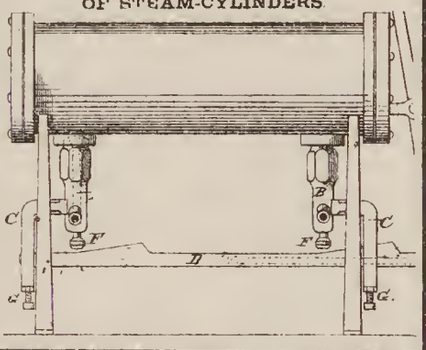
93,507. EDWARD WIARD.
EXPANDING DOUBLE-SHOVEL PLOW.



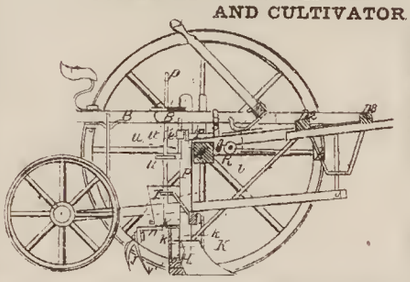
93,508, H. C. WILCOX.
CASKET-HANDLES.



93,509, WILLIAM H. WOODS.
DEVICES FOR OPERATING COCKS OF STEAM-CYLINDERS.

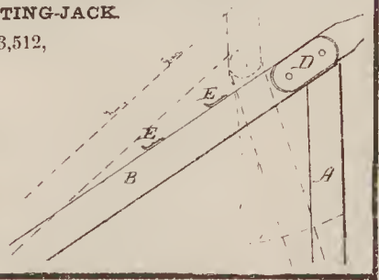


93,510, AARON G. AIKIN.
COMBINED CORN-PLANTER AND CULTIVATOR.

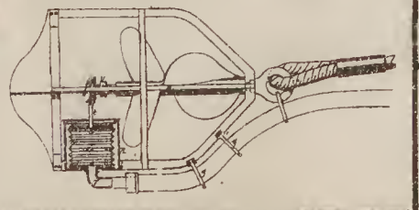


93,511,
J. F. ANDREWS.
SEWING-MACHINE.

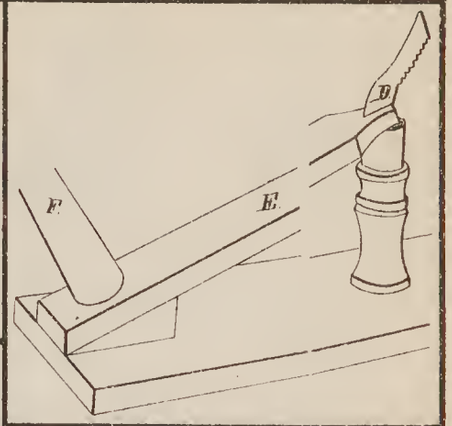
JAMES B. AUSBOURNE.
LIFTING-JACK.
93,512,



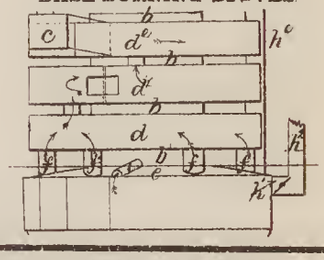
93,513, A. BANARE.
SPEED-INDICATOR FOR SHIPS.



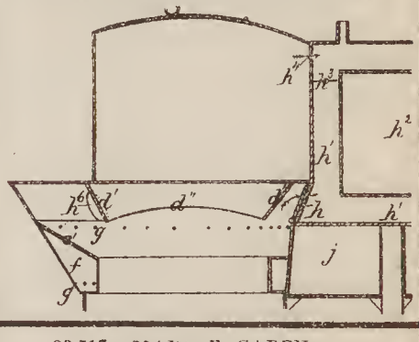
93,514, JOHN BEAL.
IMPLEMENT FOR SLITTING AND JOINING RAGS FOR CARPETS.



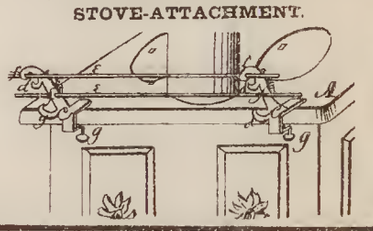
93,515, WILLIS S. BRONSON.
BASE-BURNING STOVES.



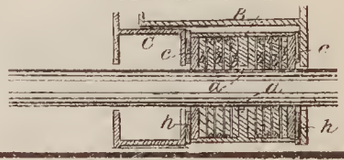
93,516, WILLIS S. BRONSON.
BASE-BURNING COOK-STOVES.



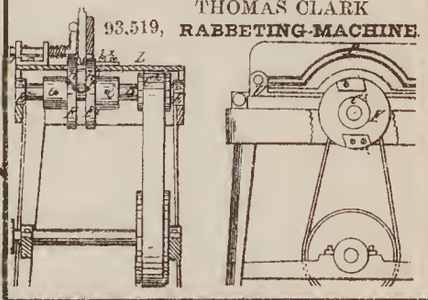
93,517. MARY E. CAPEN.
STOVE-ATTACHMENT.



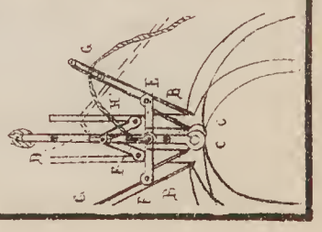
93,518. WM. H. T. CLARK.
STUFFING-BOXES.



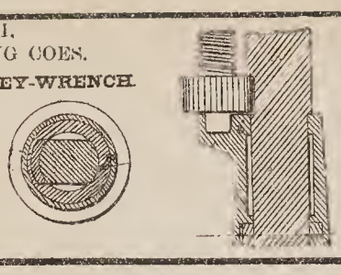
JOHN J. CLARK.
THOMAS CLARK
93,519, **RABBETING-MACHINE.**



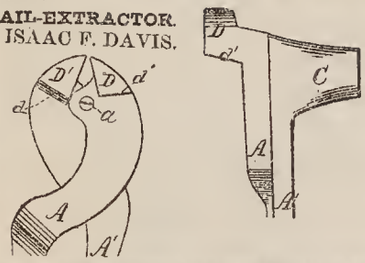
FRANCIS CRAMER.
HORSE HAY-FORKS.
93,520.



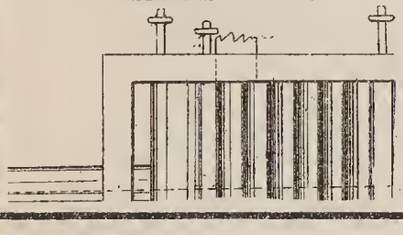
93,521, LORING COES.
MONKEY-WRENCH.



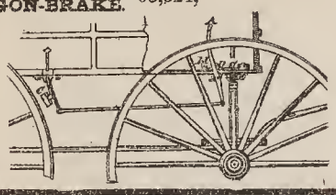
93,522, **NAIL-EXTRACTOR.** ISAAC F. DAVIS.



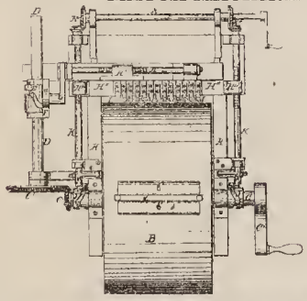
93,523. JONATHAN DENNIS, Jr.
DISTILLING ALCOHOLIC SPIRITS AND LIQUORS.



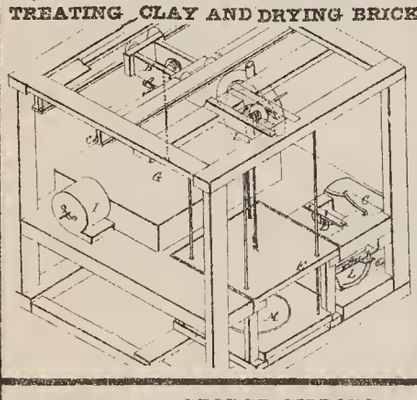
CHARLES DOLD. 93,524,
WAGON-BRAKE.



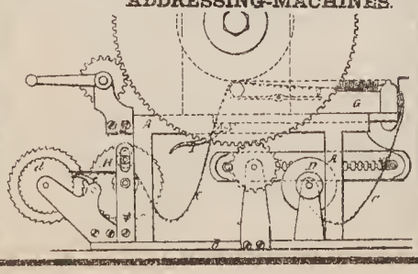
93,525, WM. B. ELTONHEAD.
MATCH-MACHINE.



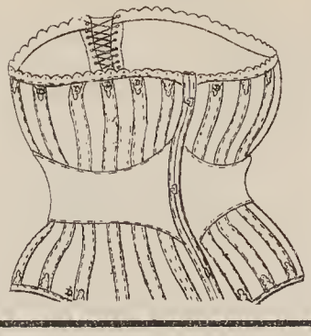
93,526, JEREMIAH FISHER.
TREATING CLAY AND DRYING BRICKS.



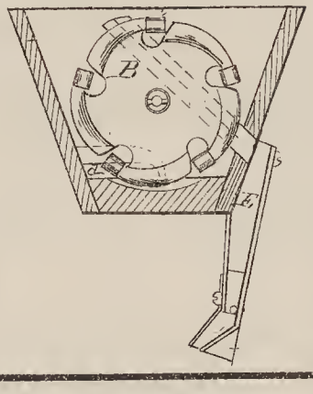
93,527, GEORGE GIBBONS.
ADDRESSING-MACHINES.



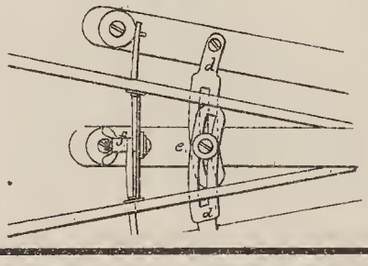
93,528 THOMAS S. GILBERT.
CORSETS.



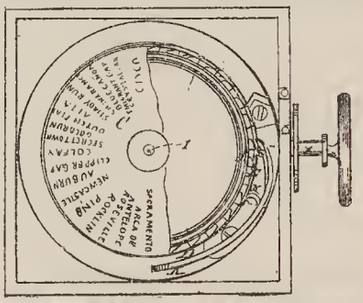
93,529, M. L. GORHAM.
SEEDING-MACHINES.



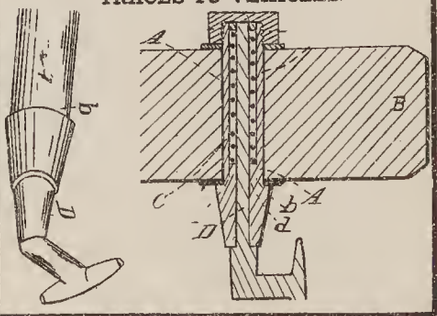
93,530, E. S. GREGORY.
CULTIVATORS.



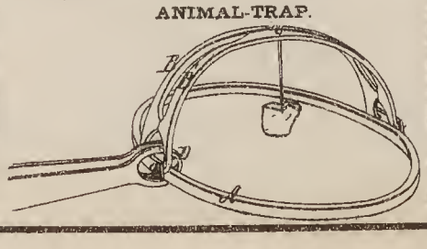
93,531, JOHN CORNELL HACKETT.
PASSENGER AND STATION-REGISTER.



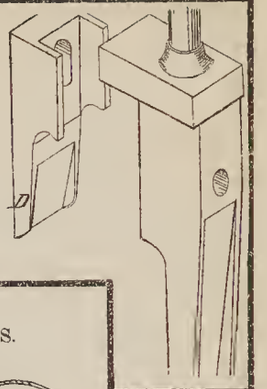
93,532, IVORY C. HAM.
DEVICE FOR ATTACHING TRACES TO VEHICLES.



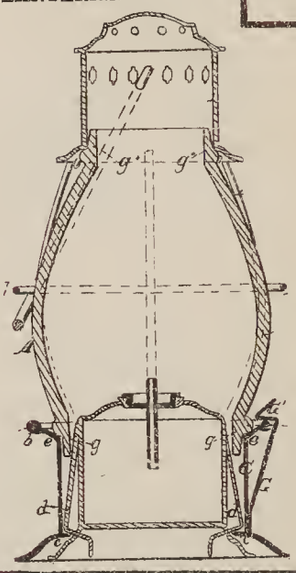
93,533. GEORGE HANELINE.
ANIMAL-TRAP.



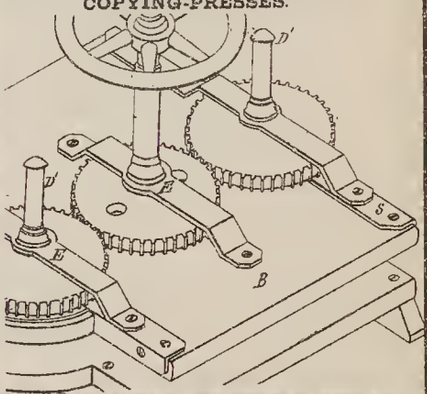
93,534. CARL HINZ.
MORTISING-CHISEL.



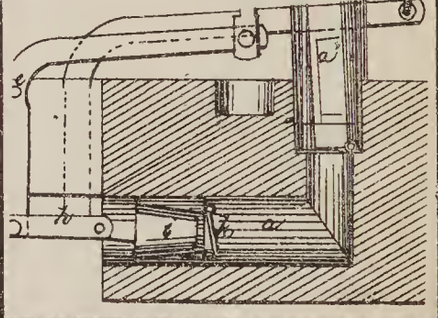
93,535, JOHN HUGHES.
LANTERNS.



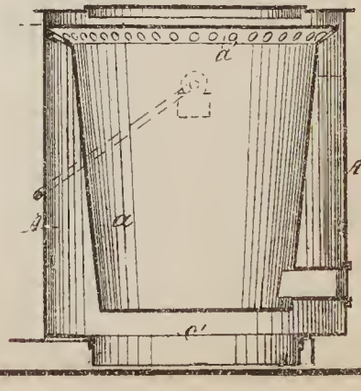
93,536, J. M. KEEP.
COPYING-PRESSES.



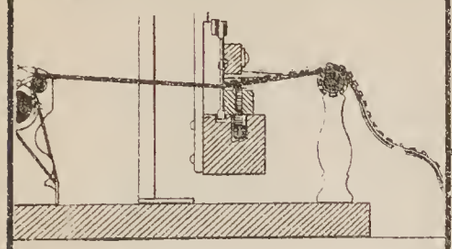
93,537, LUKE L. KELLOGG. **PUMPS.**



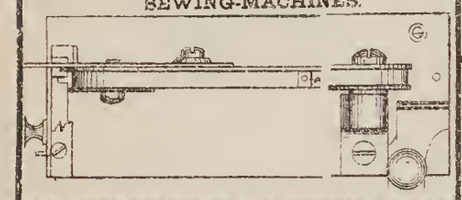
93,538. J. DWIGHT KELLOGG, Jr.
PORTABLE COOKING-FURNACES.



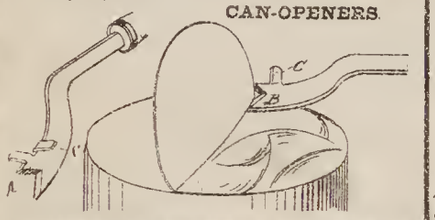
93,539, JACOB KEMPER.
METHOD OF WEAVING GALLOON.



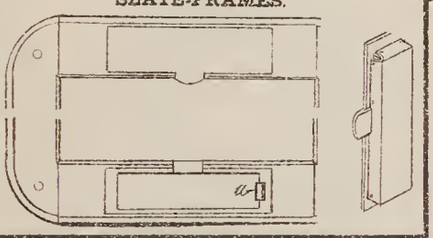
93,540, J. T. JONES.
BASTER-GUIDE FOR SEWING-MACHINES.



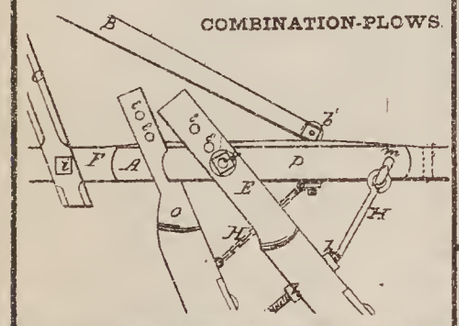
93,541, GEORGE G. JOYCE.
CAN-OPENERS.



93,542, ALICIA LYNCH.
MARY L. MOFFAT.
SLATE-FRAMES.

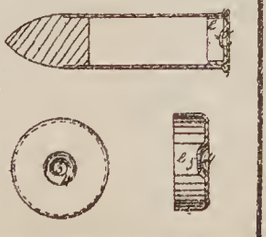


93,543, B. F. McCARTY.
J. W. ORR.
R. J. ORR.
COMBINATION-PLOWS.

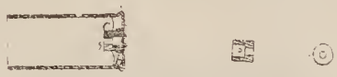


93,544. C. S. MERRIMAN.
SUBMARINE CLOTHING.

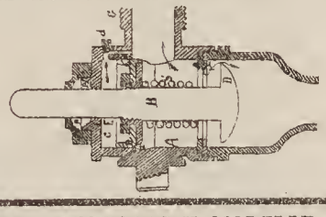
93,545,
ISAAC M. MILBANK.
METALLIC CARTRIDGES.



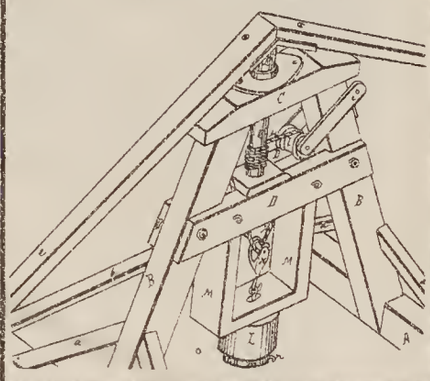
93,546. I. M. MILBANK.
METALLIC CARTRIDGES



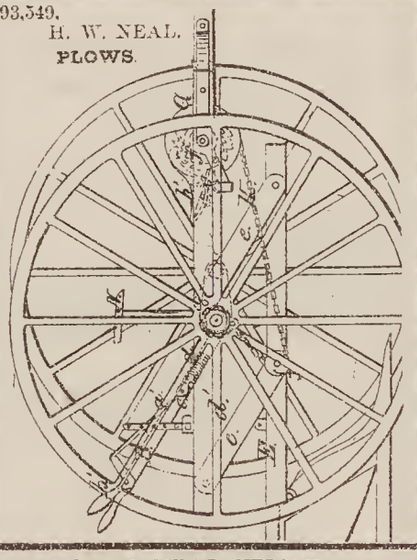
93,547. GEO. R. MOORE.
VALVES FOR WATER-CLOSET PIPES.



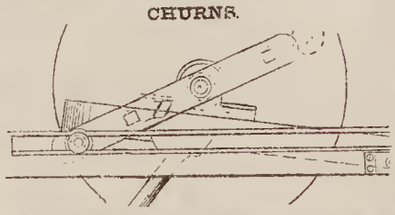
93,548. NICHOLAS V. MORELLE.
LOUIS J. MORELLE.
STUMP-EXTRACTOR AND PRESS COMBINED.



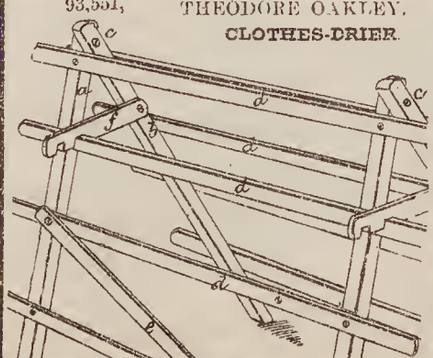
93,549.
H. W. NEAL.
PLOWS.



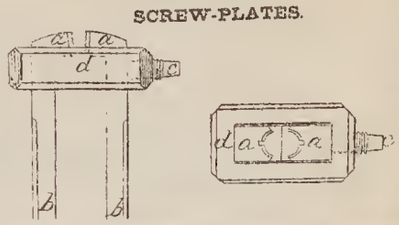
93,550. JAMES L. NELSON.
CHURNS.



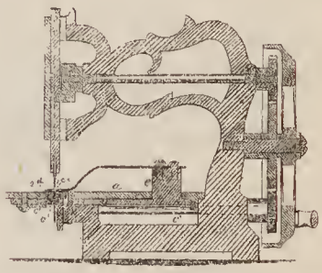
93,551, THEODORE OAKLEY.
CLOTHES-DRIER.



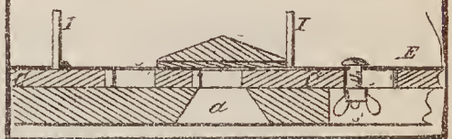
93,552, A. W. OWEN.
JAMES BARNES.
SCREW-PLATES.



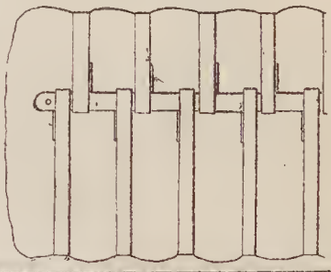
93,553, HIRAM PLUMMER
SEWING-MACHINE



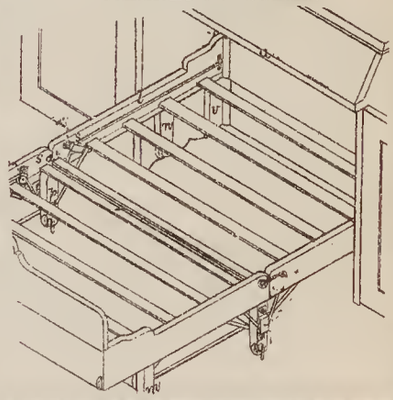
93,554 H. B. QUICK.
DEVICE FOR REGULATING THE FEED IN SEEDING-MACHINE.



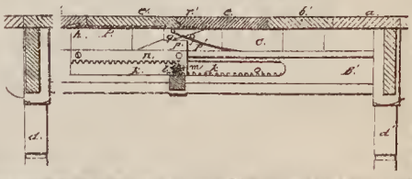
93,555. WILLIAM RIDDLE.
PACKING-DEVICE.



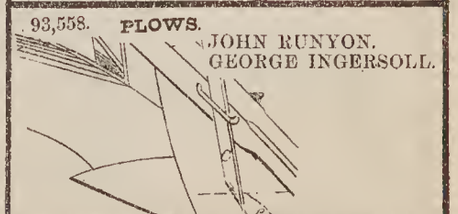
93,556. DANIEL T. ROBINSON.
CABINET-BEDSTEAD.



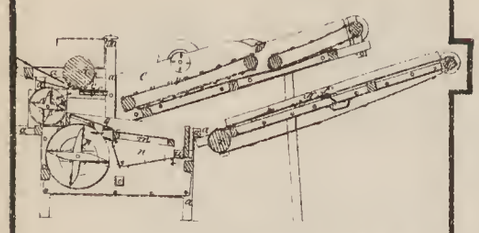
93,557. DANIEL T. ROBINSON.
EXTENSION DINING-TABLE.



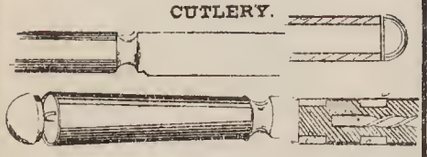
93,558. **PLOWS.**
JOHN RUNYON.
GEORGE INGERSOLL.



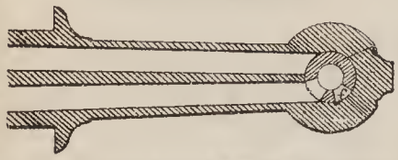
93,559. JAMES F. RUSSELL.
GRAIN-SEPARATOR.



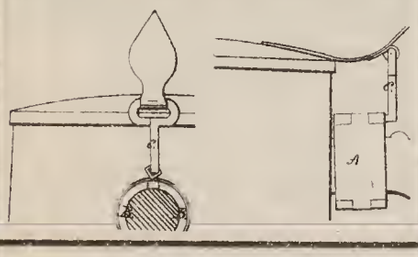
93,560. WM. SANDERSON.
CUTLERY.



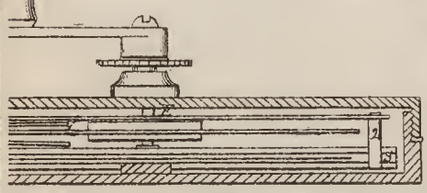
93,561. EDWARD SAUTER.
DOUBLE FAUCETS.



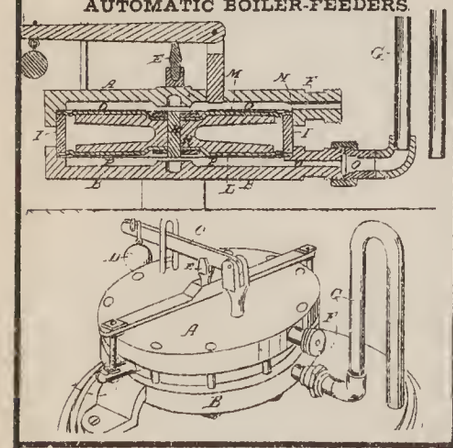
93,562. PH. I. SCHOPP.
DEVICE FOR HOLDING LIDS TO CUPS.



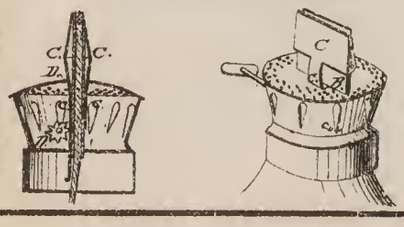
ELECTRICAL MACHINES.
93,563. H. JULIUS SMITH.



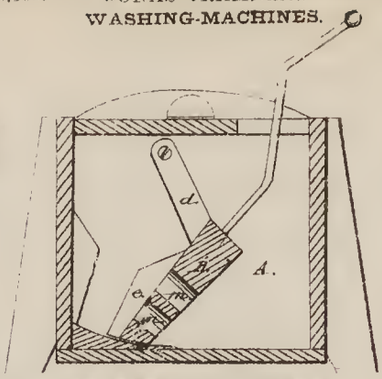
93,564. HENRY E. STAGER.
AUTOMATIC BOILER-FEEDERS.



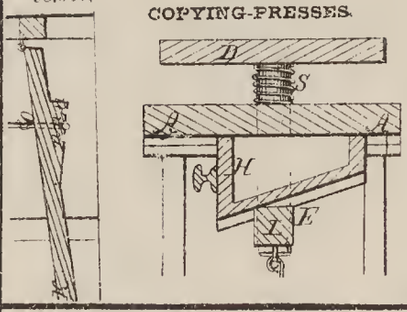
93,565. WM. H. TERPENING.
CLINTON W. TERPENING.
LAMP-EXTINGUISHERS.



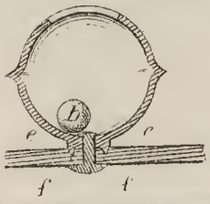
93,566. JONAS TRAMBLIE.
WASHING-MACHINES.



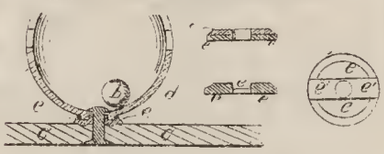
93,567. W. W. UNDERHILL.
COPYING-PRESSES.



93,568. HIRAM VEAZEY.
SLEIGH-BELLS.

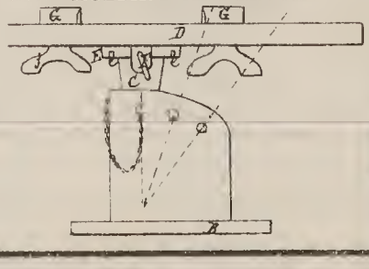


93,569. HIRAM VEAZEY.
SLEIGH-BELL FASTENINGS.

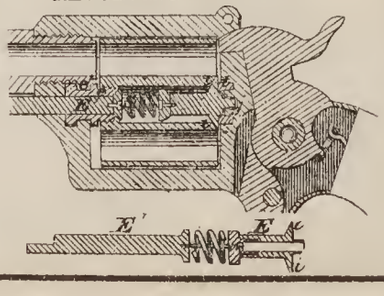


93,570. JOB A. WARDEN.
KNEE-CLASP FOR HORSES, &c

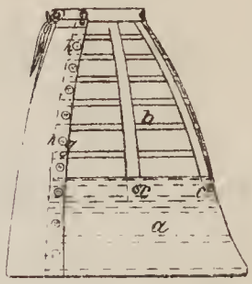
JAMES WHITE.
93,571. **HOLDING HAT-BLOCKS.**



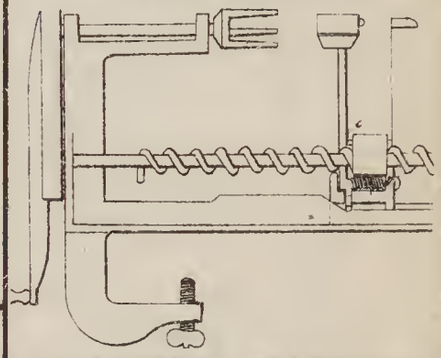
93,572. ROLLIN WHITE.
REVOLVING FIRE-ARMS.



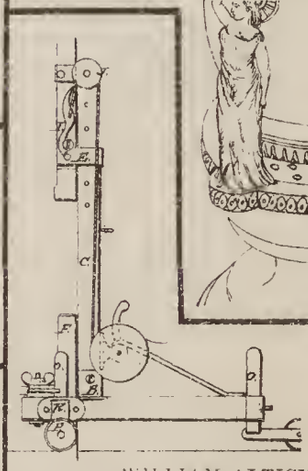
93,573. JOHN WHITEHEAD
JOHN McKEEVER.
HOOP-SKIRTS.



93,574. D. H. WHITTEMORE.
APPLE-PARER AND SLICER.

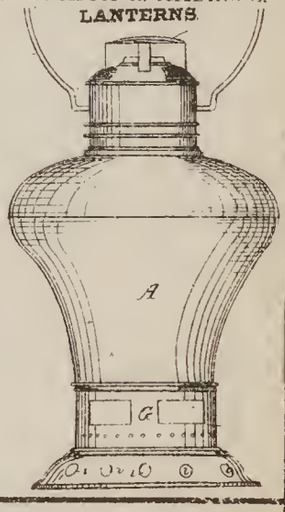


93,575. JOHN P. ADAMS.
REVOLVING ICE-PITCHER AND COFFEE-POT.

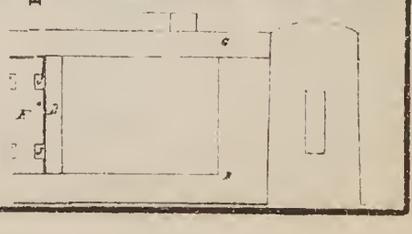


WILLIAM ALTICK. 93,576.
MACHINE FOR DRIVING POSTS.

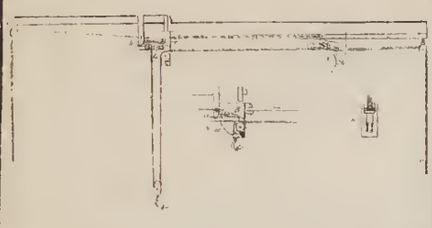
93,577. JOSHUA E. AMBROSE.
LANTERNS.

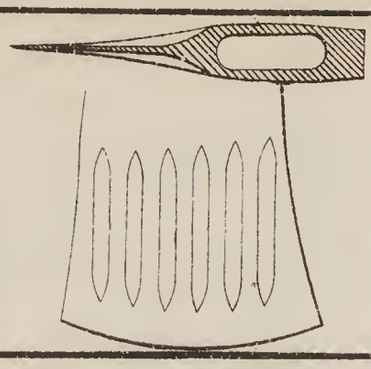


JOSEPH ANTHONY.
THOMAS B. PURVES.
PISTON-PACKING. 93,578.

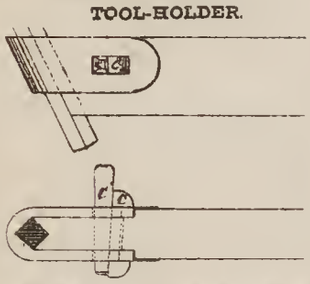


93,579, T. H. ARNOLD.
IMPROVED HAY-ELEVATOR.

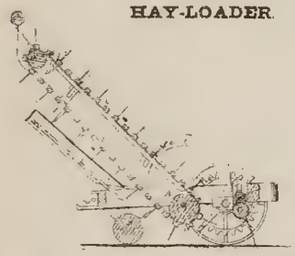




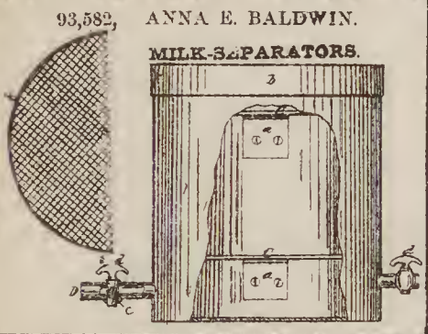
93,580, JOSEPH R. BAILEY.
TOOL-HOLDER.



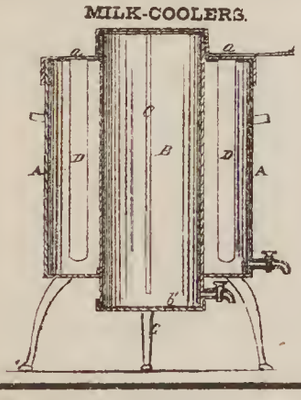
93,581, JOSEPH R. BAILEY.
HAY-LOADER.



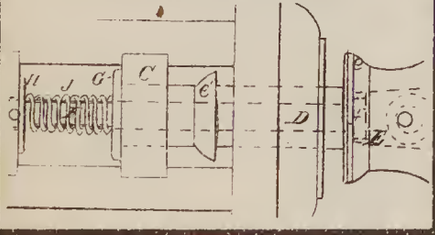
93,582, ANNA E. BALDWIN.
MILK-SEPARATORS.



93,583, ANNA E. BALDWIN.
MILK-COOLERS.

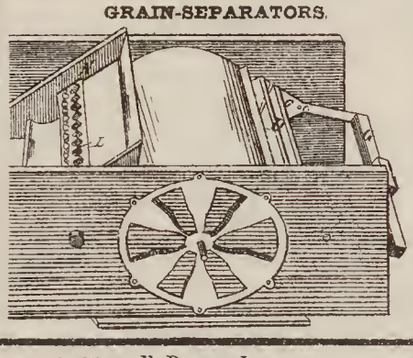


93,584, DAVID S. BEALS.
RAILWAY DRAW-BAR.

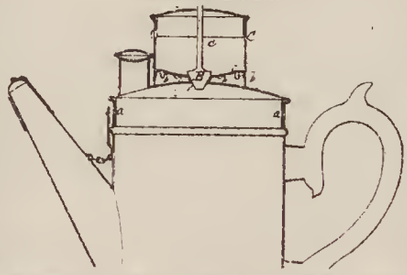


93,585, JACOB H. BEIDLER.
IMPROVEMENT IN AXE.

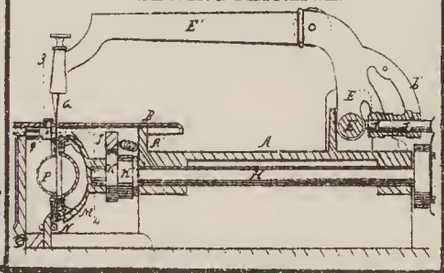
93,586, CHARLES A. BIKLE.
GRAIN-SEPARATORS.



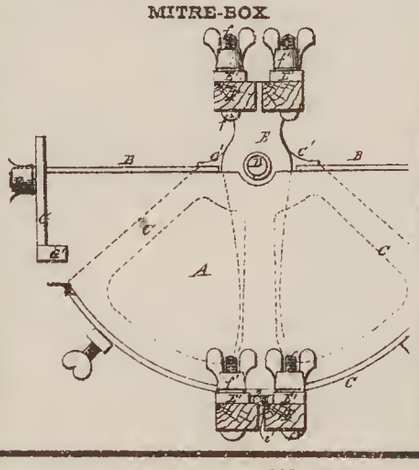
93,587, E. BLUNT, Jr.
COFFEE-POTS.



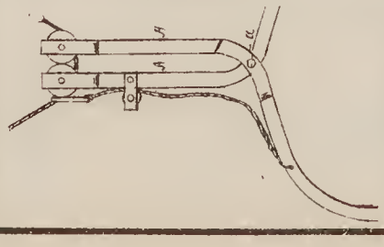
93,588, JOSEPH BOND, Jr.
SEWING-MACHINE.



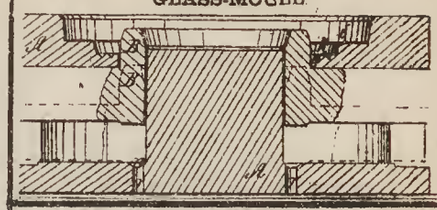
93,589, S. D. BOWKER.
MITRE-BOX.



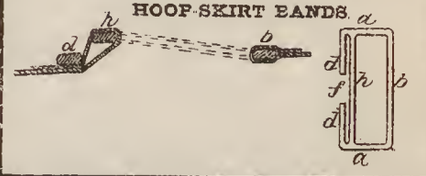
93,590, J. H. BRINTON.
GRAPPLE.



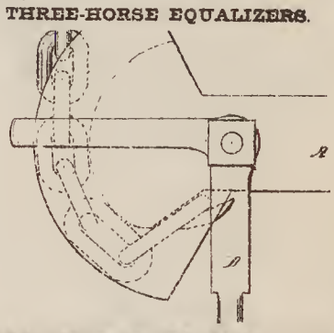
93,591, HOMER BROOKE.
GLASS-MOULD.



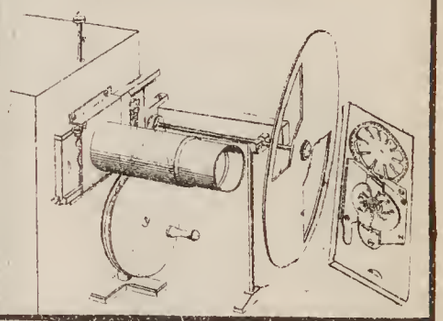
93,592, HEMAN P. BROOKS.
BUCKLES OR SLIDES FOR HOOP-SKIRT BANDS.



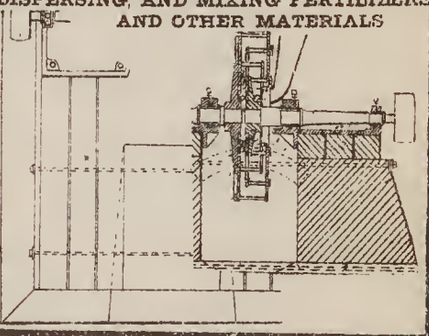
93,593, WILLARD P. BROOKS.
THREE-HORSE EQUALIZERS.



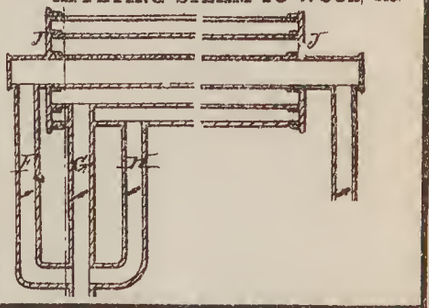
93,594, O. B. BROWN.
OPTICAL INSTRUMENT.



93,595, THOMAS CARR.
MACHINE FOR DISINTEGRATING DISPERSING, AND MIXING FERTILIZERS AND OTHER MATERIALS.

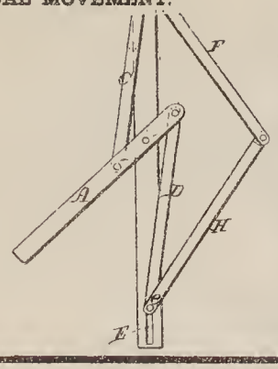


93,596, WILLIAM CARTER.
APPLYING STEAM TO WOOL, &c.

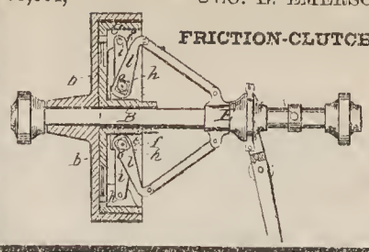


93,597, CHARLES CHINNOCK.
INJECTOR FOR INSECT-POWDERS.

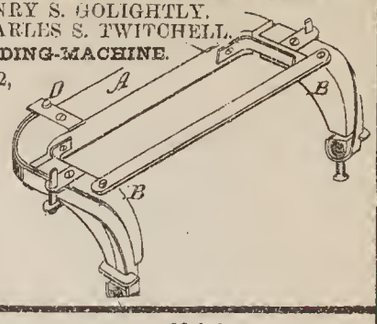
THOMAS J. CLARK.
GEORGE M. CLARK. 93,598,
MECHANICAL MOVEMENT.



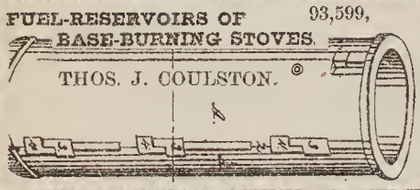
93,604, GEO. D. EMERSON.
FRICTION-CLUTCHES.



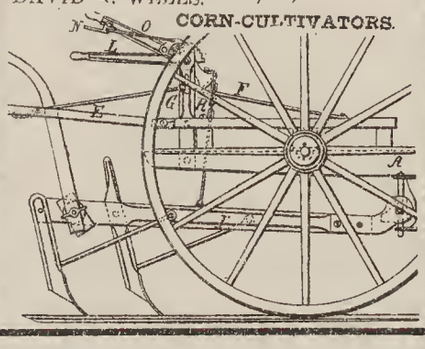
HENRY S. GOLIGHTLY.
CHARLES S. TWITCHELL.
BENDING-MACHINE.
93,612,



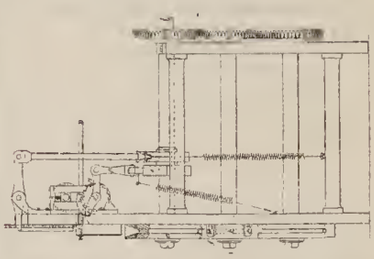
FUEL-RESERVOIRS OF BASE-BURNING STOVES. 93,599,
THOS. J. COULSTON.



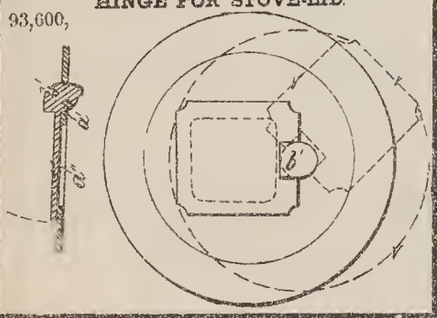
WILLIAM EMMONS.
DAVID A. WELLS. 93,605,
CORN-CULTIVATORS.



JAS. E. GRANNISS. 93,613.
MACHINE FOR MAKING BULLETS.



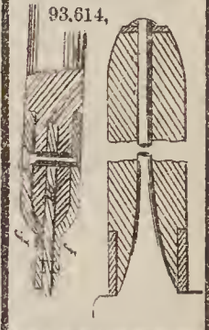
THOS. J. COULSTON.
HINGE FOR STOVE-LID.
93,600,



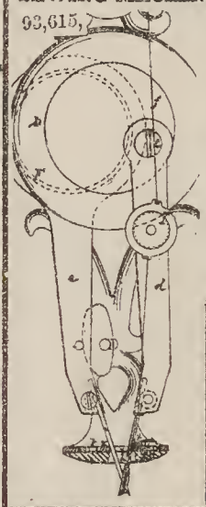
PERRY FINLEY. 93,606.
ENAMELLING WOOD AND OTHER SOLID MATERIALS WITH HARD RUBBER.

RANDALL FISH.
DEODORIZING-COMPOUND. 93,607,

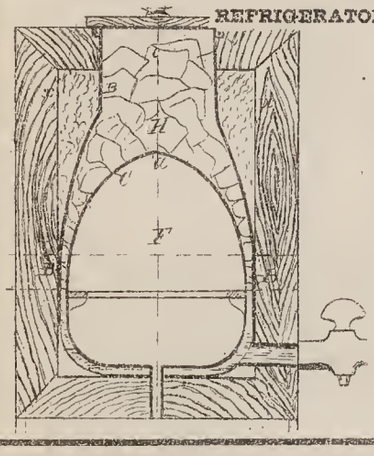
C. HAMMOND.
CLEAVERS.
93,614,



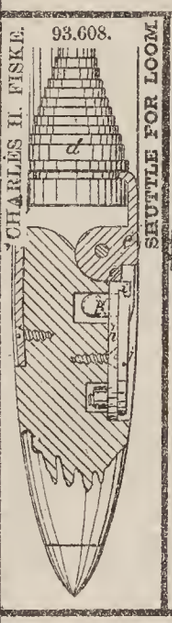
ANNA HANCOCK.
SEWING-MACHINE.
93,615,



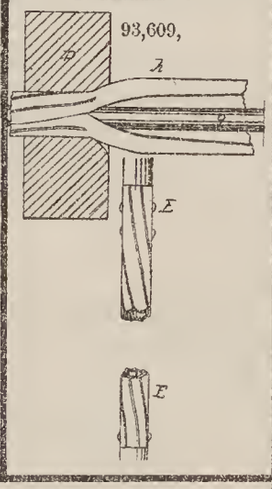
93,601, EDWD. J. CREASEY.
REFRIGERATOR.



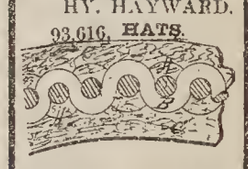
CHARLES H. FISKE. 93.608.
SHUTTLE FOR LOOM.



DAVID A. FOOT.
AVERY CHADWICK.
LIGHTNING-RODS.
93,609,

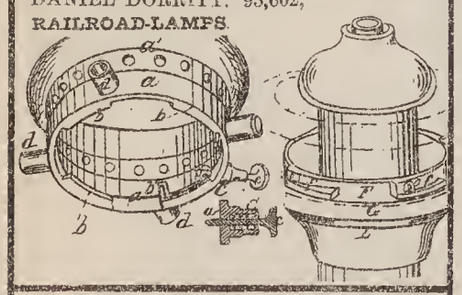


HY. HAYWARD.
93,616, **HATS.**

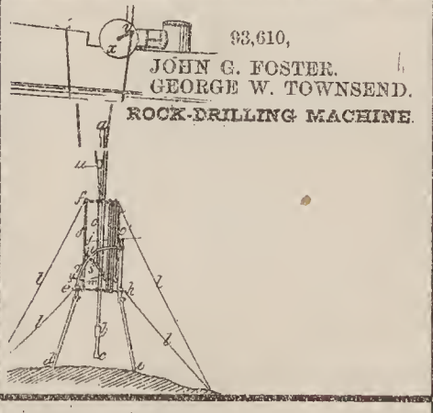


G. F. HENRY.
I. A. F. BANG.
F. R. C. MONESTIER. 93,617,
J. P. A. FIGUIER.
MATERIAL FOR LUBRICATING WOOL AND OTHER ANIMAL FIBRES.

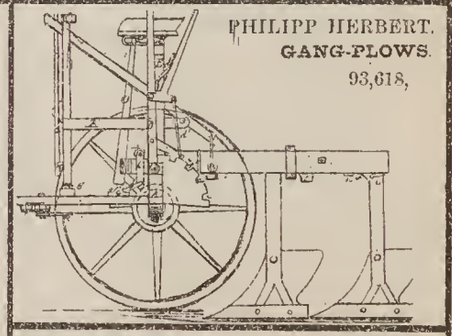
DANIEL DORRITY. 93,602,
RAILROAD-LAMPS.



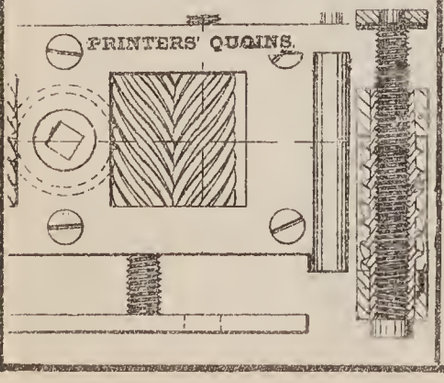
93,610,
JOHN G. FOSTER.
GEORGE W. TOWNSEND.
ROCK-DRILLING MACHINE.



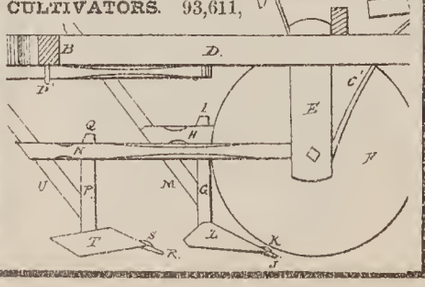
PHILIPP HERBERT.
GANG-PLOWS.
93,618,



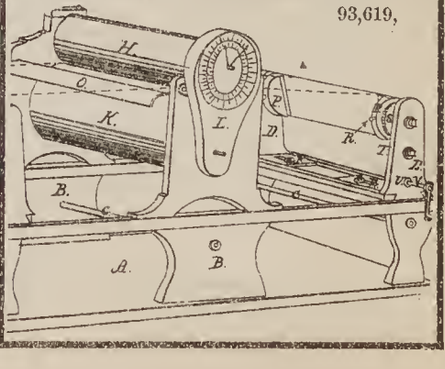
JAMES M. A. DEW. 93,603,
PRINTERS' QUOINS.



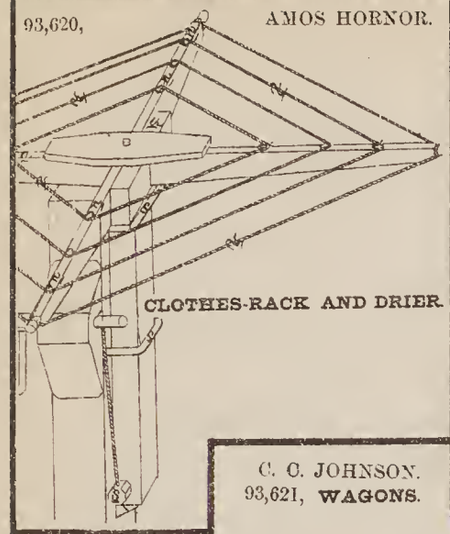
DANIEL D. FRANKLIN.
CULTIVATORS. 93,611,



L. HILLMAN.
MEASURING AND FOLDING CLOTH.
93,619,

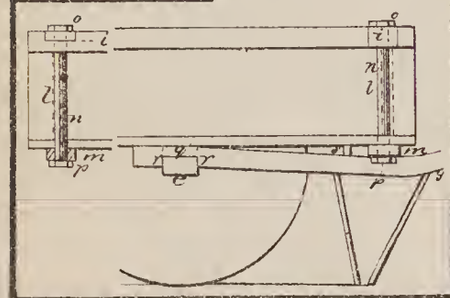


93,620, AMOS HORNOR.



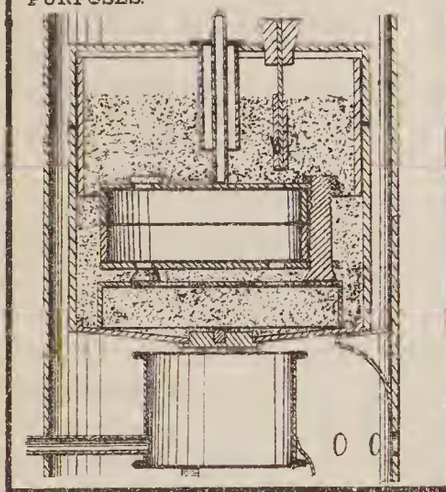
CLOTHES-RACK AND DRIER.

C. C. JOHNSON.
93,621, **WAGONS.**

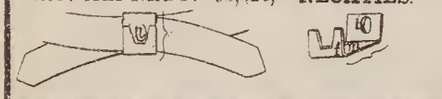


FREDERICK KALTEYER. 93,622,
COMPOUND FOR DESTROYING VERMIN IN CATTLE.

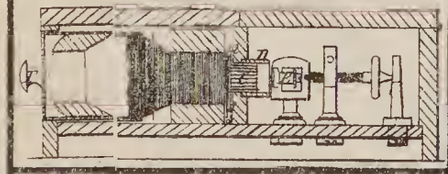
93,623, CYRUS M KELSEY.
VULCANIZING RUBBER FOR DENTAL PLATES, AND FOR OTHER PURPOSES.



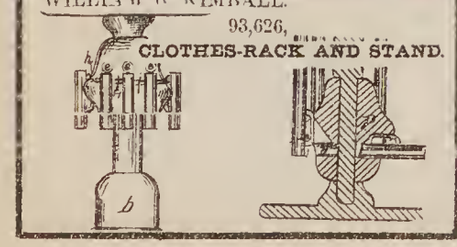
GEO. KENNEDY. 93,624, **NECKTIES.**



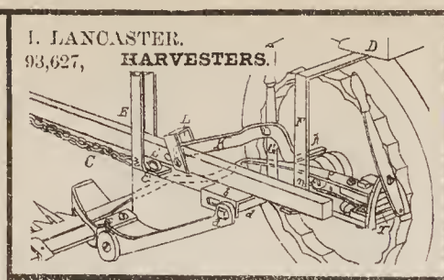
JEROME KIDDER. 93,625,
ELECTRO-MAGNETIC MACHINES.



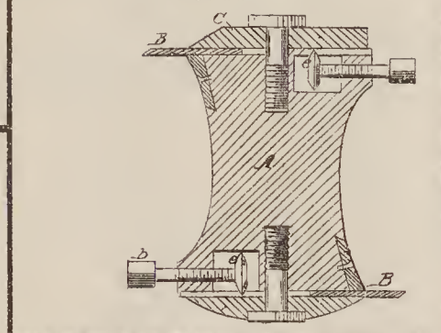
WILLIAM R. KIMBALL.
93,626,
CLOTHES-RACK AND STAND.



I. LANCASTER.
93,627, **HARVESTERS.**

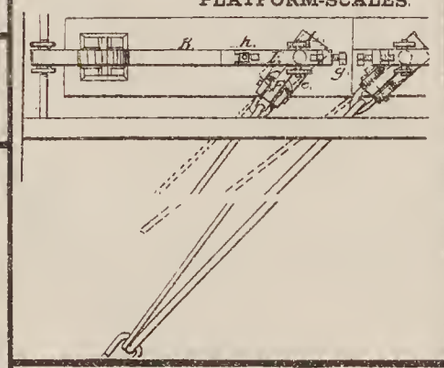


93,628, MICHAEL LEHMAN.
CUTTER-HEAD.

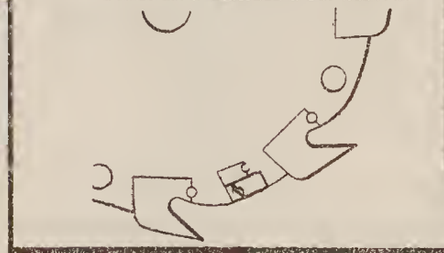


93,629, WM. J. LYND.
PREPARING COKE FROM COLORADO AND OTHER COALS.

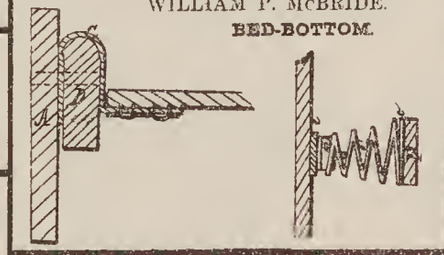
93,630, WM. MAGUIRE.
PLATFORM-SCALES.



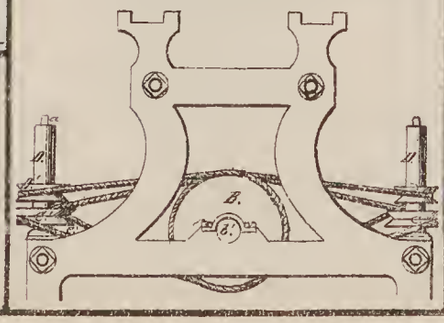
GOTTLIEB MAULICK. 93,631,
PLANING-TEETH FOR SAWS.



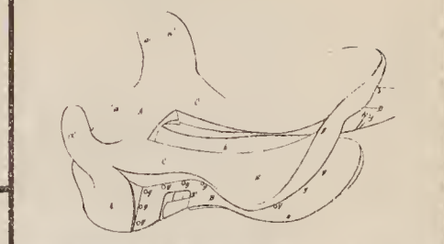
93,632. ALEXANDER McBRIDE.
WILLIAM P. McBRIDE.
BED-BOTTOM.



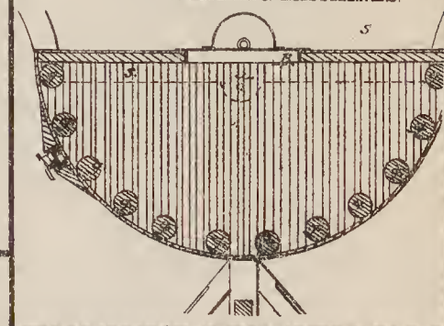
93,633, ALEXANDER McFARLAND.
CHARLES W. PACK.
SPINDLE AND BOBBIN-TUBES FOR SPINNING-MACHINES.



93,634, JOHN C. MILLER.
SIDE-SADDLE.

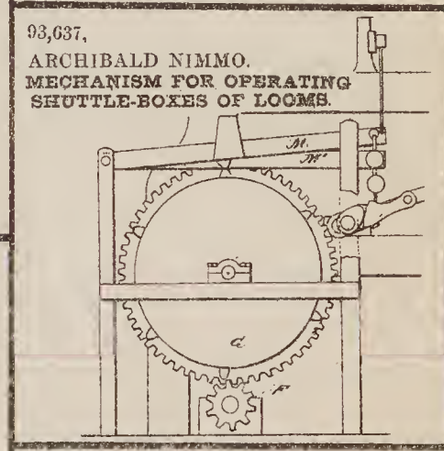


93,635, L. F. MUHLINGHAUS.
WASHING-MACHINES.

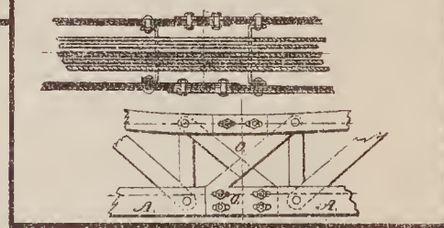


93,636, ROBERT NEWTON.
ROLLING-CUTTER FOR PLOWS.

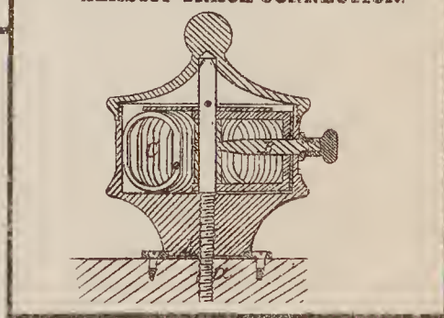
93,637,
ARCHIBALD NIMMO.
MECHANISM FOR OPERATING SHUTTLE-BOXES OF LOOMS.



93,638, **IMPROVED BRIDGE.**
C. H. PARKER.

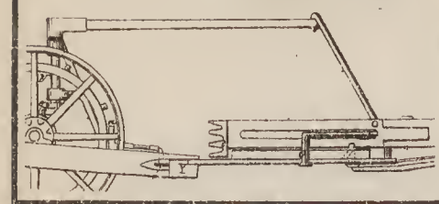


93,639, HUGH QUINN.
ELASTIC TRACE-CONNECTION.

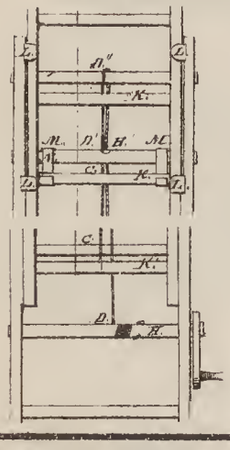


MODE OF DESULPHURIZING AURIFEROUS AND OTHER SUL-
JULIO H. RAE. 93,640, **PHURET-ORES.**
T. T. DAVIS.

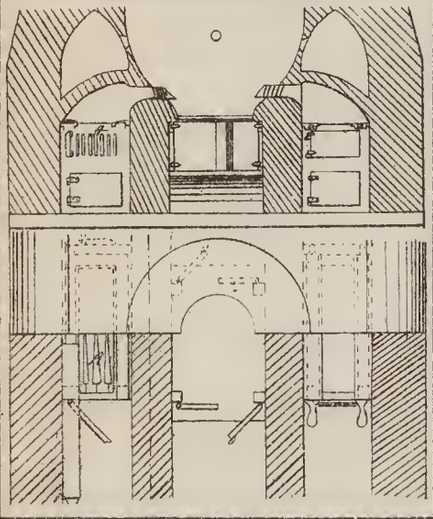
93,641. CLEANTHUS A. REED.
JAMES M. CAMPBELL.
HARVESTERS.



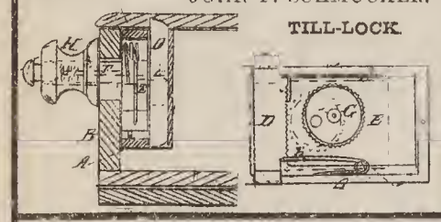
93,642, ARTEMAS ROGERS.
EXTENSION-LADDER.



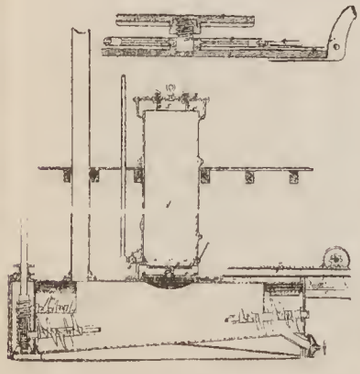
JAMES M. ROHPER.
JNO. H. BASSLER.
93,643, **KILN FOR ROASTING ORES.**



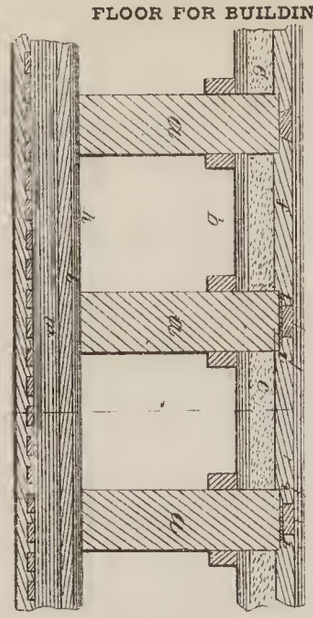
93,644, JOHN P. SCHMUCKER.
TILL-LOCK.



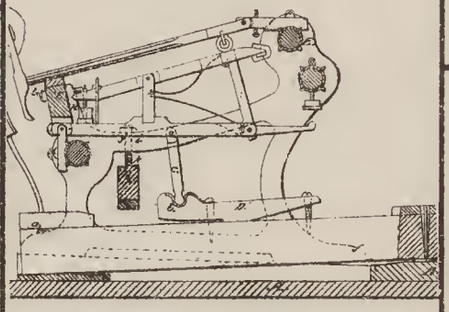
93,645, THOS. SIM.
APPARATUS FOR EXTRACTING OIL FROM VEGETABLE AND OTHER MATTERS



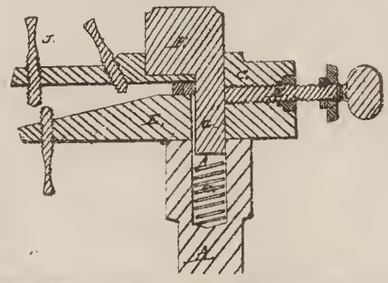
93,646, HAVILAH M. SMITH.
WILLIAM C. SMITH.
FLOOR FOR BUILDINGS.



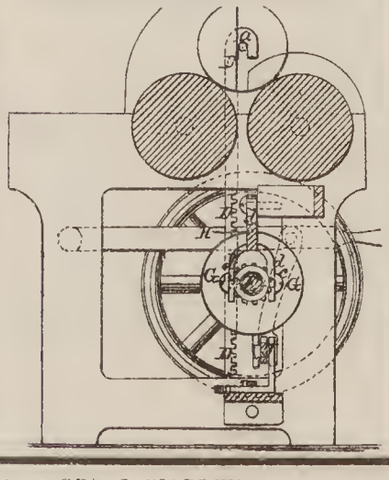
93,647. THEODORE STEINWAY.
PIANO-FORTE ACTIONS.



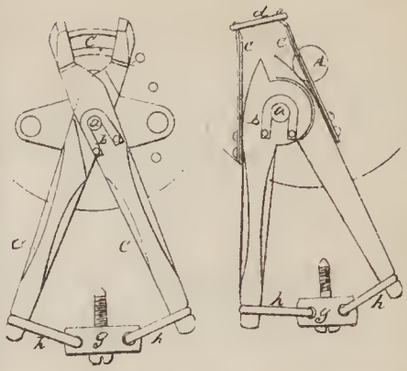
93,648, NATHAN B. TYLER.
SAW-SET.



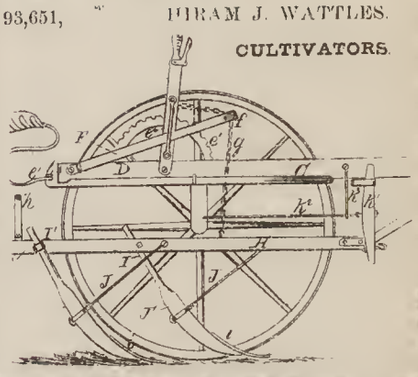
93,649, EDWARD VAN WINKLE.
FRICTION-BRAKES FOR COTTON-LAPPING MACHINES.



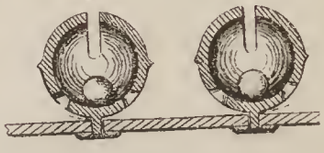
93,650, GEO. J. WARDWELL.
ELASTIC PITMAN FOR STONE-CHANNELLING MACHINE



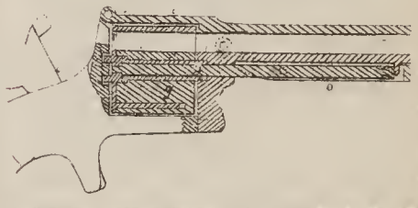
93,651, HIRAM J. WATTLES.
CULTIVATORS.



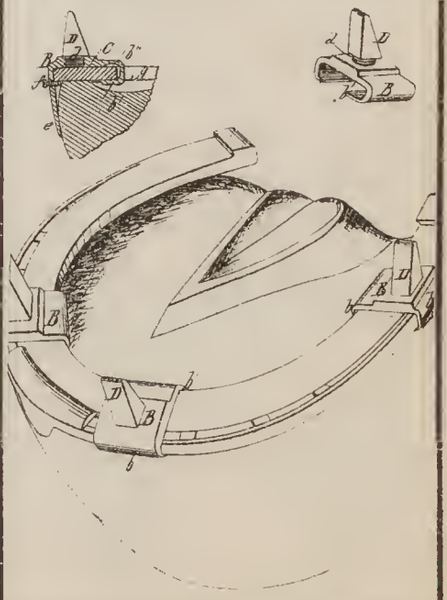
93,652, DWIGHT M. WELCH.
ATTACHING BELLS TO STRAPS.



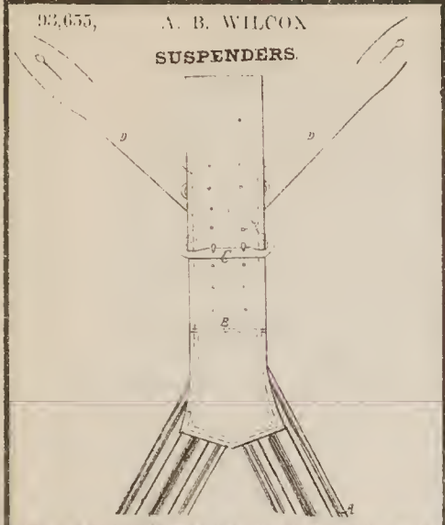
ROLLIN WHITE.
93,653, **REVOLVING FIRE-ARMS.**



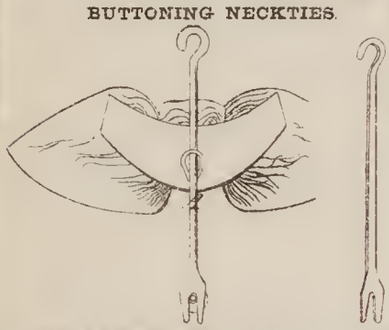
93,654, EDWARD WHITEHEAD.
REMOVABLE CALKS FOR HORSESHOES.



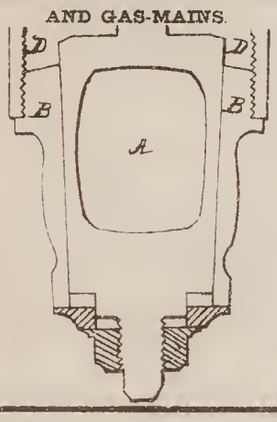
93,655, A. B. WILCOX
SUSPENDERS.



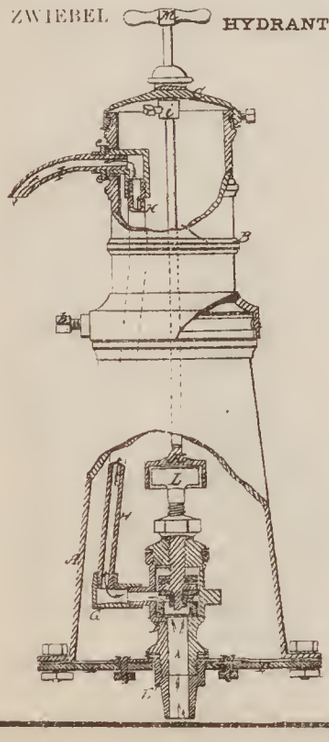
93,656, OMAR WILSON.
DEVICE FOR ADJUSTING AND BUTTONING NECKTIES.



93,657, ORIN F. WOODFORD.
STOP-COCK BOXES FOR WATER AND GAS-MAINS.

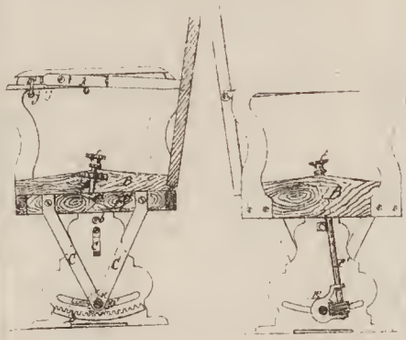


93,658,
ML. ZWIEBEL HYDRANTS.

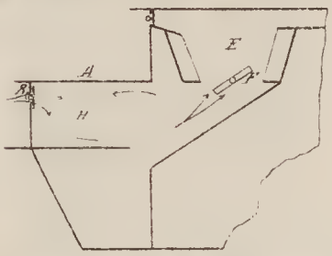


93,659. ABRAHAM B. McKEON.
COMPOSITION-CEMENT FOR PAVEMENTS.

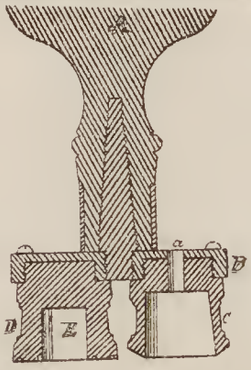
93,660, T. C. THEAKER.
RAILWAY-CAR SEAT



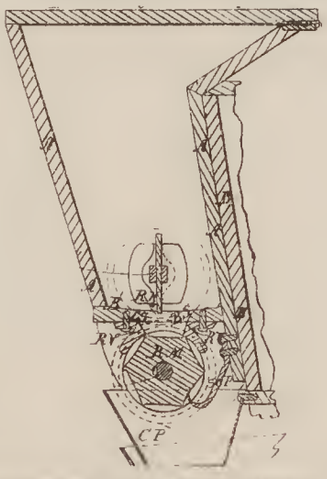
3,585. ELIZABETH HAWKS.
AUXILIARY AIR-CHAMBER FOR STOVES, HEATERS, AND FURNACES.



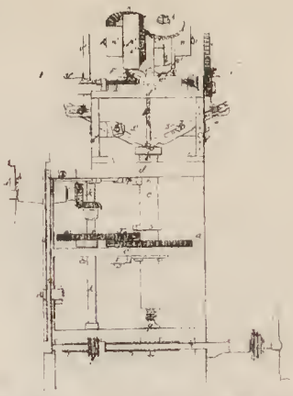
3,586. MARCUS P. NORTON.
POST-OFFICE POST-MARKING AND CANCELLING HAND-STAMPS.



3,587, CALEB C. FOSTER.
FERTILIZER-ATTACHMENT.

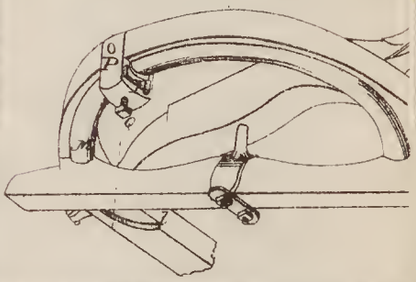


3,588. ANDREW R. ARNOLD.
MACHINE FOR MAKING TWIST-DRILLS

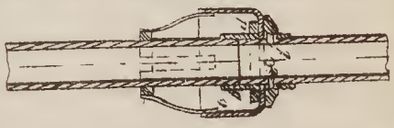


3,589 CANCELED.

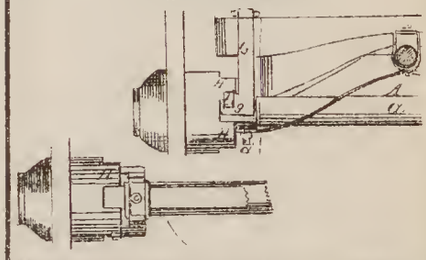
3,590 JOHN CURTIS.
CARRIAGES.



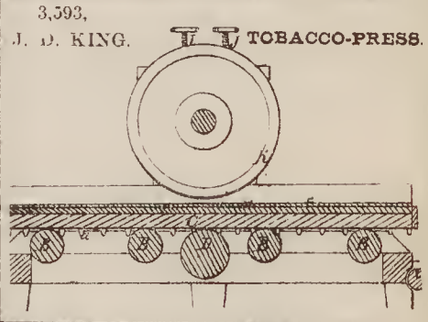
3,591, EDGAR F. GRIFFIN,
PACKINGS FOR DEEP WELLS



3,592 A. KESSBERGER.
WAGON-BRAKE.

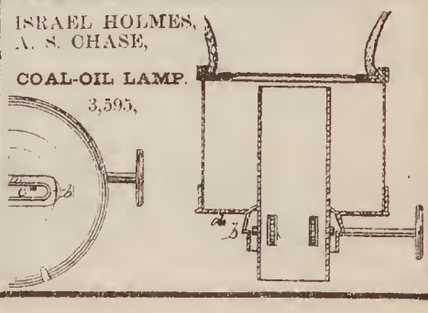


3,593,
J. D. KING. TOBACCO-PRESS.



3,594, S. W KIRK.
MODE OF PURIFYING CAST-IRON

ISRAEL HOLMES,
A. S. CHASE,
COAL-OIL LAMP.
3,595,



ILLUSTRATIONS OF PATENTS

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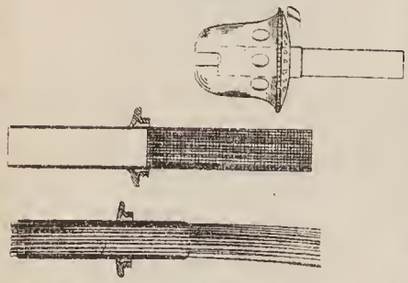
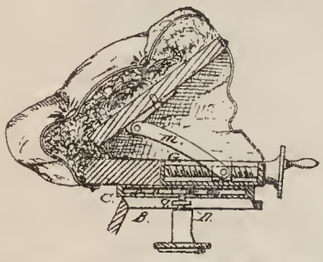
THE UNITED STATES PATENT OFFICE,

AUG. 17, 1869.

93,661, JOSHUA E. AMBROSE.
VAPOR-BURNERS.



93,662, ROBERT W. ARCHER.
HEAD-REST FOR DENTISTS' AND BARBERS' CHAIRS.



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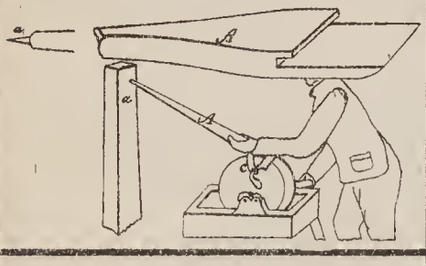
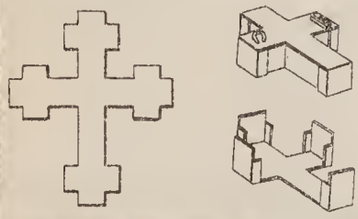
THOMAS B. FARRELL.
TOOL-HOLDER FOR HOLDING TOOLS WHILE BEING GROUND.



93,664. WILLIAM B. BENNETT.
MOUNTING ORNAMENTAL CROSSES.



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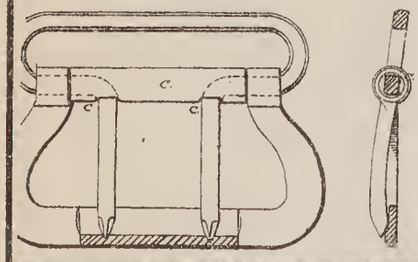
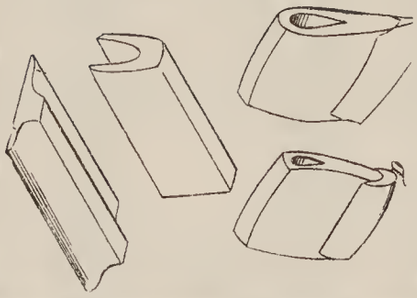
HENRY NEWMAN.
BUCKLES.



93,666. CHAS. BLAIR.
MANUFACTURE OF AXE-BITS.



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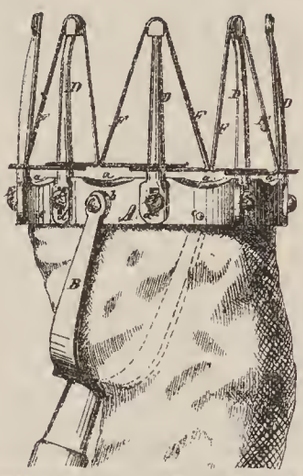
J. BOWLES.
FRUIT-GATHERERS.



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D. A. MULLANE.
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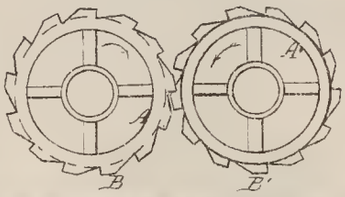

93,669, JOS. BUCHTEL.
PLATE-HOLDER.

93,670, E. L. BUCKUP.
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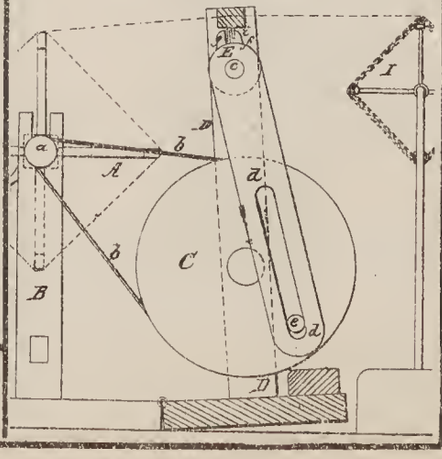

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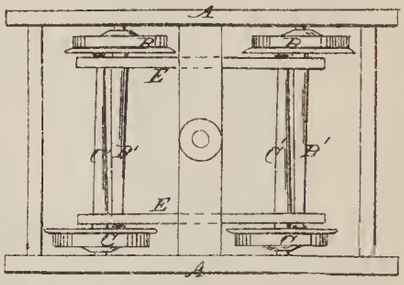
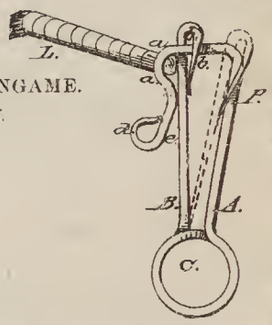
RAILWAY-CAR AXLE.



93.672.
M. E. BURLINGAME.
CLOTHES-PIN.



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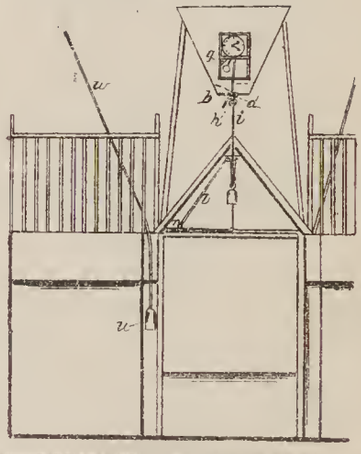
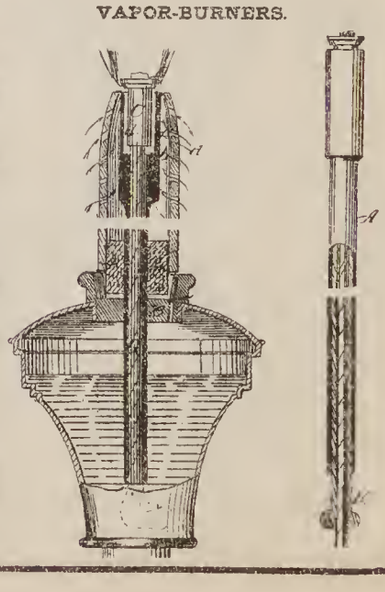
MANGERS.



93,674, L. CHANDOR.
VAPOR-BURNERS.



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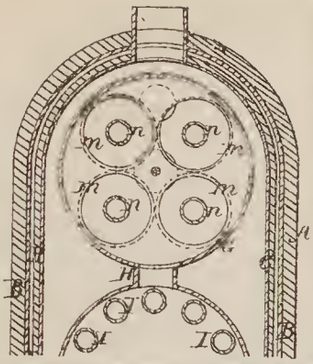
HOT-AIR FURNACES.



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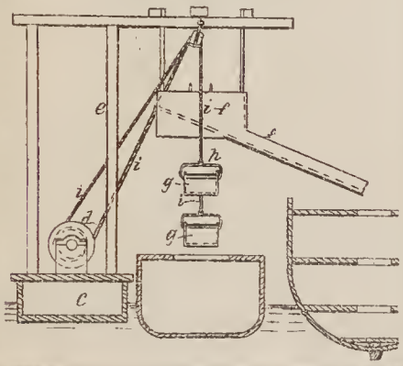
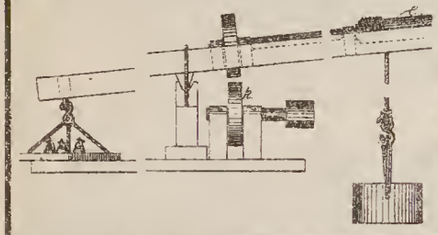
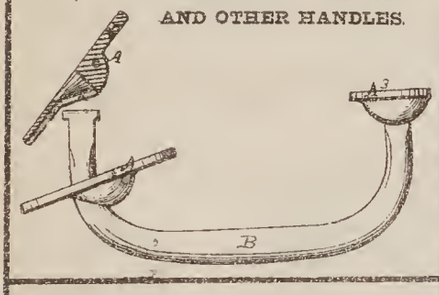
COAL-ELEVATORS.



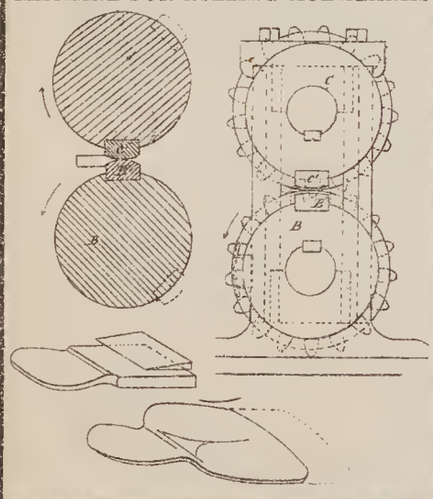
93,677, LEWIS S. CHICHESTER.
ELEVATING AND WEIGHING COAL.



93,678, JOHN CHURCHILL. TRUNK AND OTHER HANDLES.



93,679, WM. T. CLEMENT.
EDWARD V. FOSTER.
MACHINE FOR ROLLING HOE-BLANKS.



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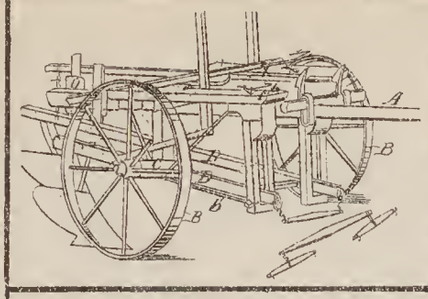
GANG-PLOWS.



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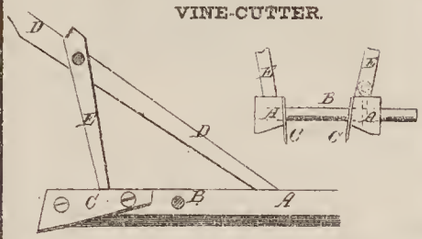
VINE-CUTTER.



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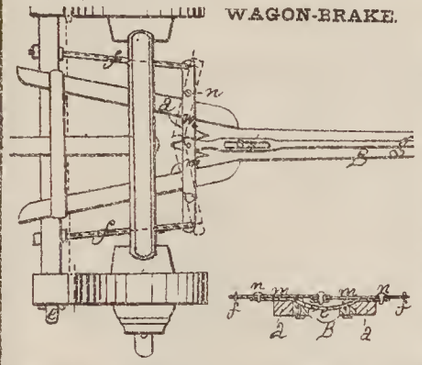
WAGON-BRAKE.



93,683, C. W. DALBEY.
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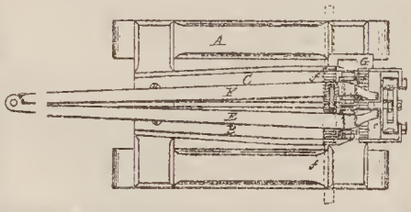

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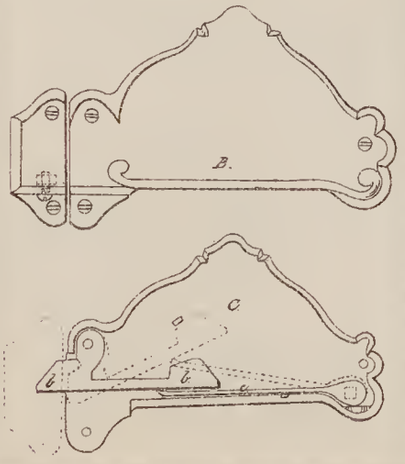
ROCK-DRILL POINT.

93,685, F. W. DEAN.
DOOR-LATCHES.



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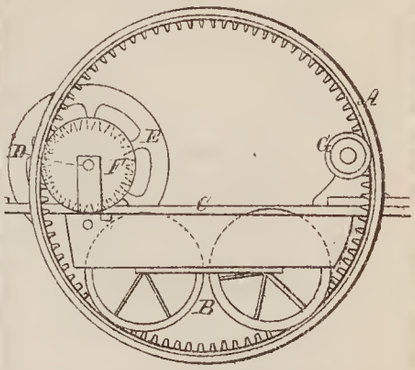

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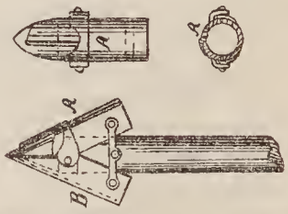

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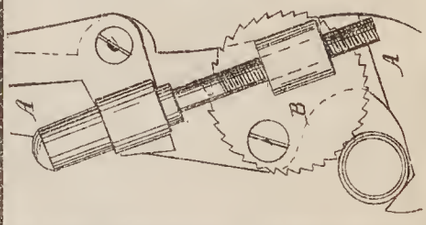
PIPE-WRENCH.



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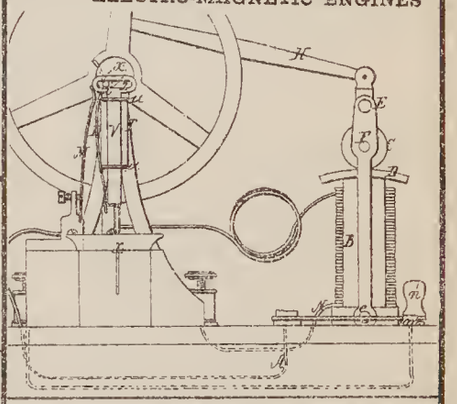
ELECTRO-MAGNETIC ENGINES.



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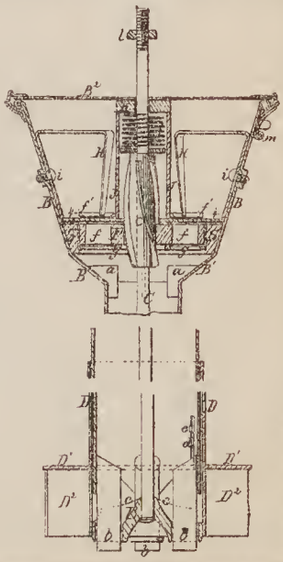

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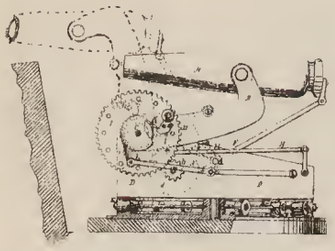
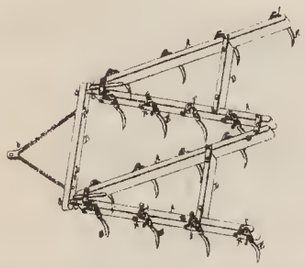
GUN-CARRIAGES.



93,692, EZRA EMMERT. **CULTIVATOR AND HARROW COMBINED.**



93,693. GEORGE M. FENLEY.
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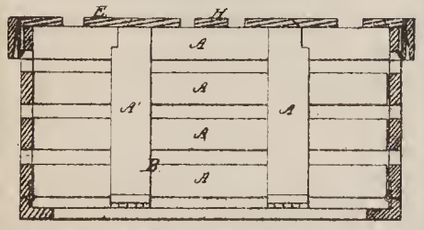

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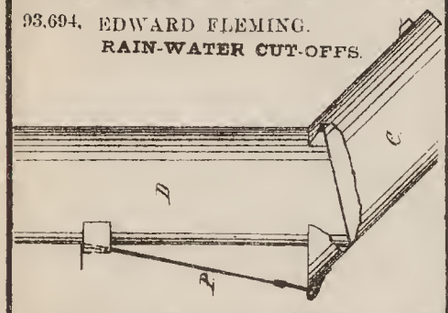
RAIN-WATER CUT-OFFS.



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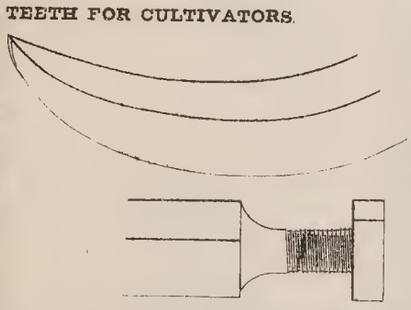

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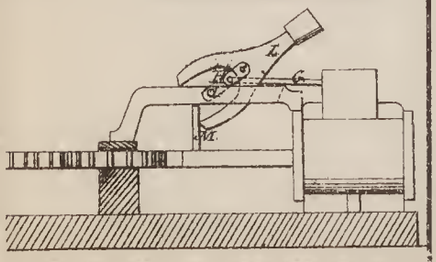

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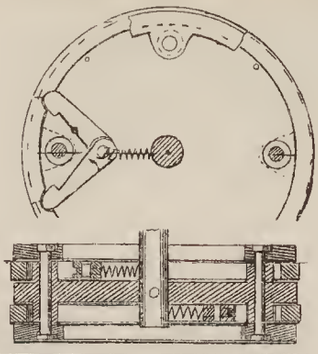
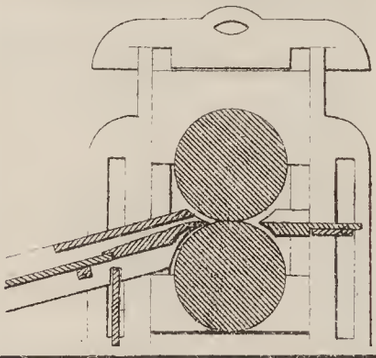
STEAM-ENGINE-PISTON PACKING.



93,698. THOS. S. GATES.
ALEXANDER H. FRITCHEY.
VAPOR-BURNERS.

93,699. JOHN GEARING.
CONDUCTOR FOR ROLLING-MILLS.



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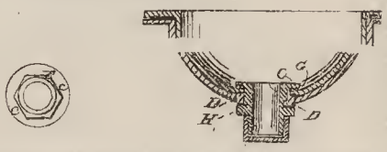

93,701, WILLIAM GERHARD,
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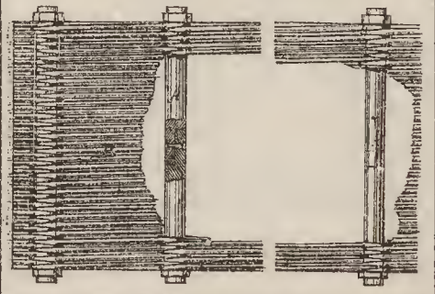
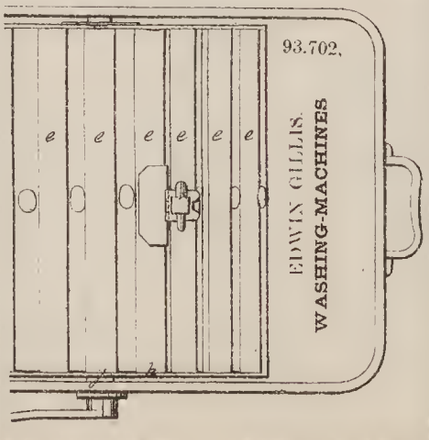


93,702.
EDWIN GILLIS.
WASHING-MACHINES



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W. H. DE VALIN.
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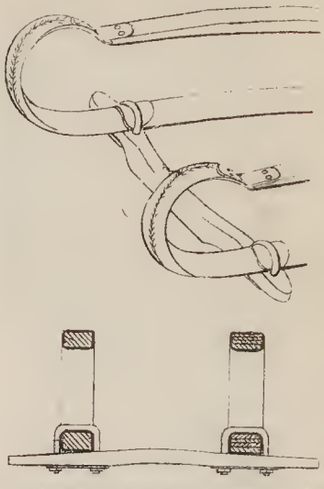
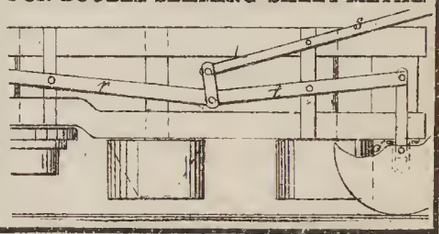
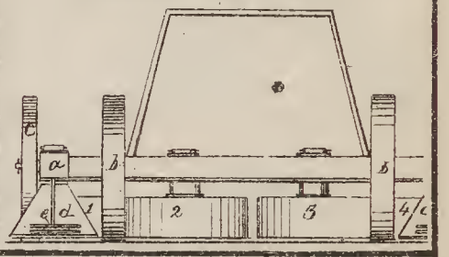


93,704, JAMES GLOBER. **MACHINE FOR DOUBLE-SEAMING SHEET-METAL.**



93,705. JAMES GLOBER.
MACHINE FOR TURNING THE EDGES OF SHEET-METAL.



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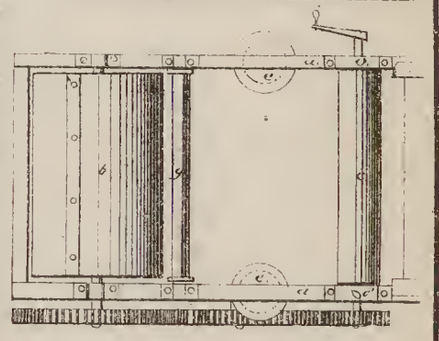
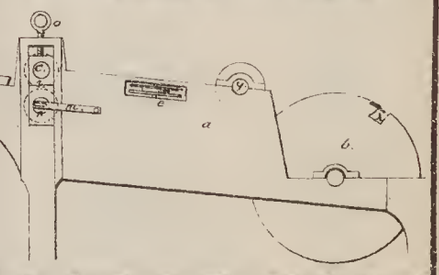
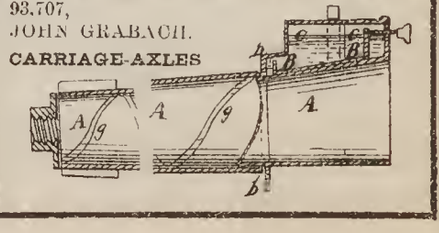
MACHINE FOR PRESSING DOWN THE SEAMS IN SHEET-METAL.

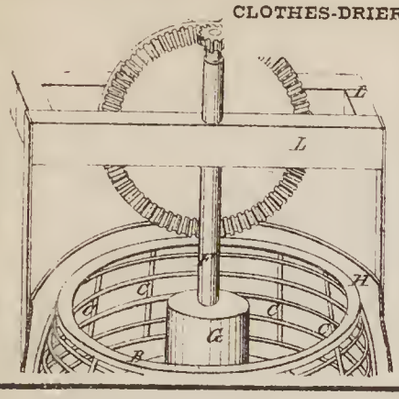




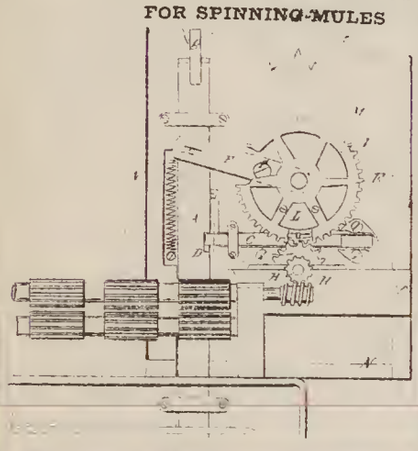
93,707,
JOHN GRABACH.
CARRIAGE-AXLES



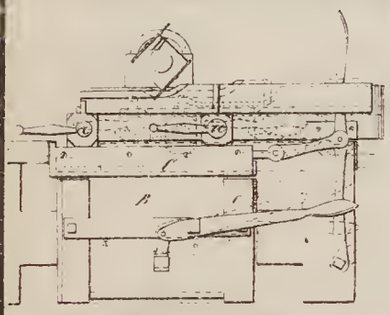
93,708, W. S. GRAVES, A. S. CAPRON. **CLOTHES-DRIER**



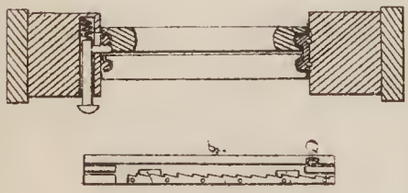
93,709 HENRY P. GREGORY. **REGISTERING-APPARATUS FOR SPINNING-MULES**



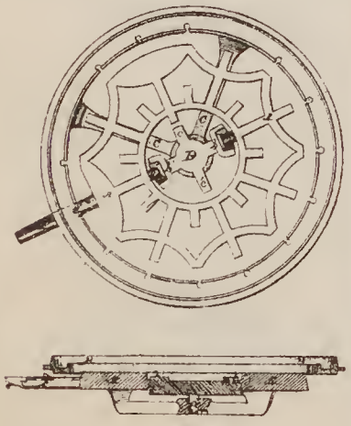
93,710. GEO. V. GRIFFITH. **MACHINE FOR FORMING PLOW-HANDLES**



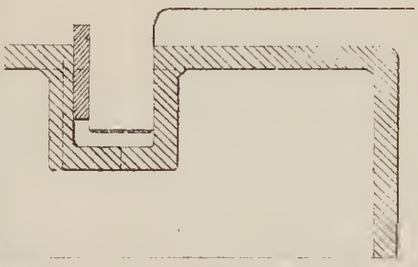
93,711, JAMES MADISON HALE. **SASH-FRAME AND FASTENER.**



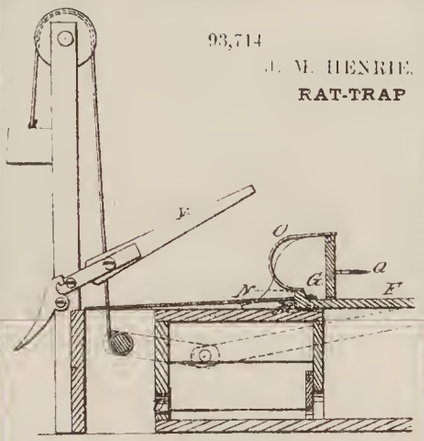
93,712, ROBERT HAM. **GRATES**



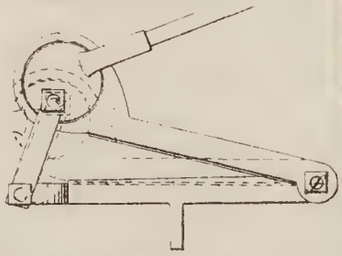
93,713. JAMES HENDERSON. **MANUFACTURE OF IRON AND STEEL.**



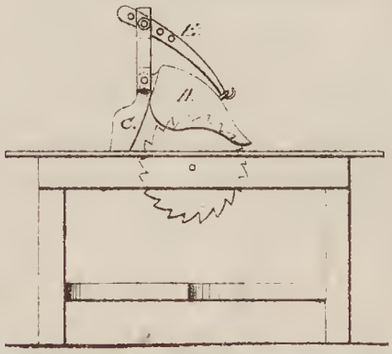
93,714 J. M. HENRIE. **RAT-TRAP**



93,715. **BENCH-SHEARS** JOHN HILL.

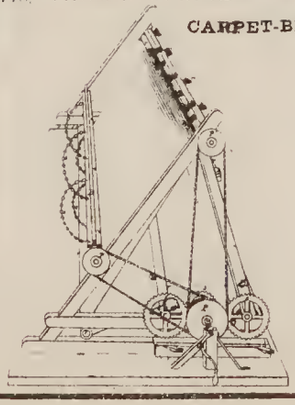


93,716, ISAAC HOLLIDAY. **GUARD FOR CIRCULAR SAWS.**

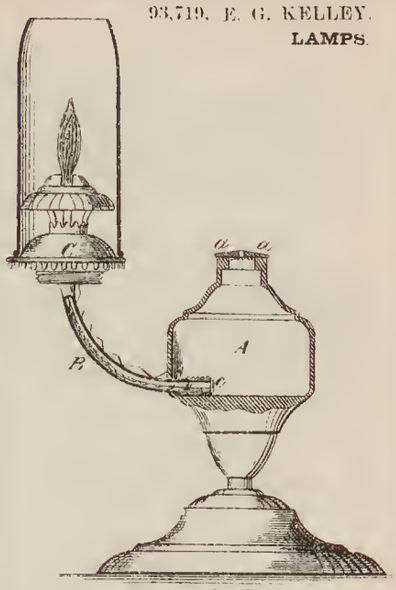


93,717, HENRY JACOBS **REMEDY FOR MURRAIN IN CATTLE.**

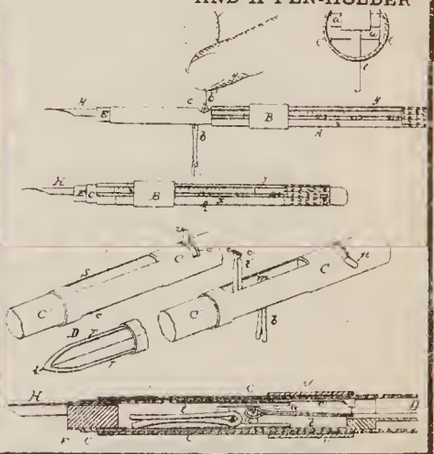
93,718, THOMAS JORDAN **CARPET-BEATER.**



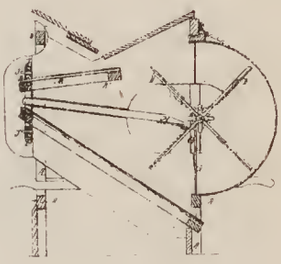
93,719. E. G. KELLEY. **LAMPS.**



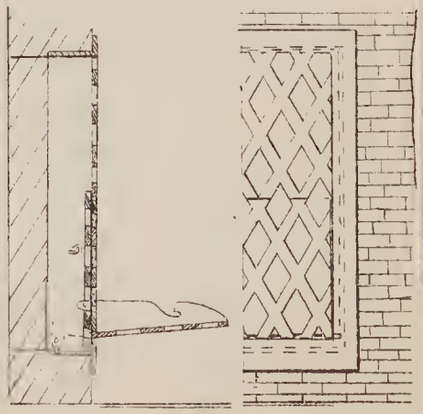
93,720. ROBT. B. KEPNER. **COMBINING A LETTER-BALANCE AND A PEN-HOLDER**



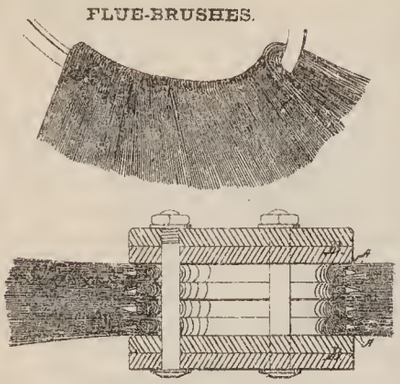
93,721, T. B. KIRKWOOD. **FANNING-MILLS.**



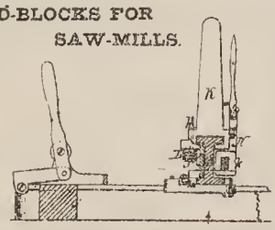
93,722. J. M. W. KITCHEN. **SIDE-WALL REGISTERS**



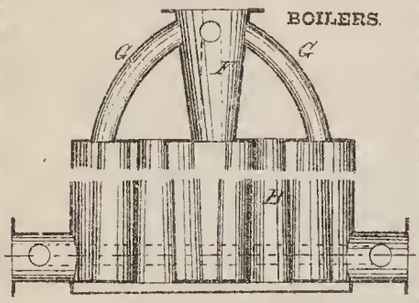
93,723. JNO. D. KUNKEL.
FLUE-BRUSHES.



93,724. C. LEFFINGWELL.
HEAD-BLOCKS FOR SAW-MILLS.

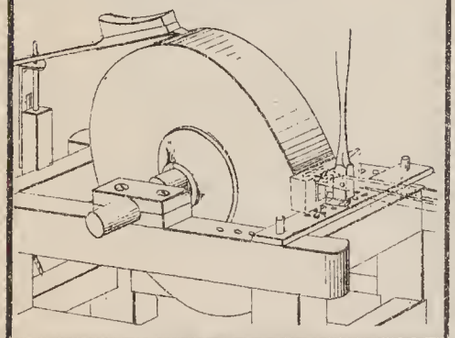


93,725. ALFRED JOHN LE GRAND.
BOILERS.

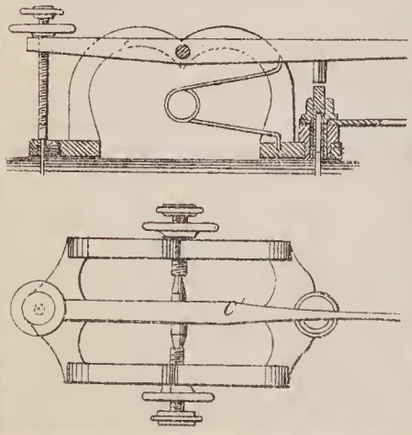


93,726. HENRY LINK. **BUTTONS.**

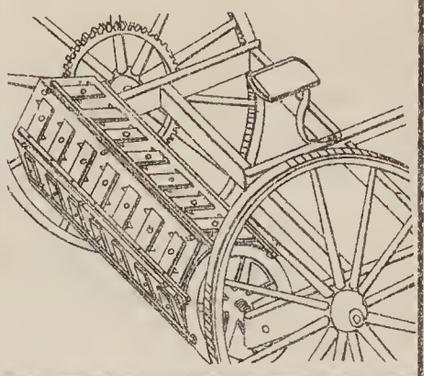
93,727. HARVEY MANN.
GRINDING AXES.



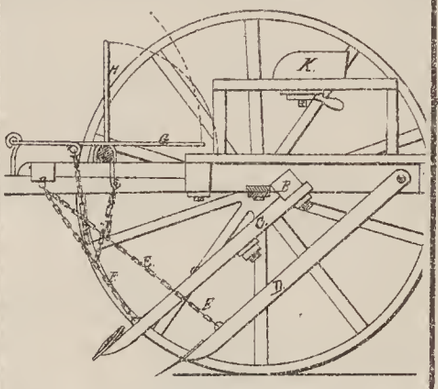
93,728. JAMES H. McELROY.
SELF-CLOSING TELEGRAPH-KEYS



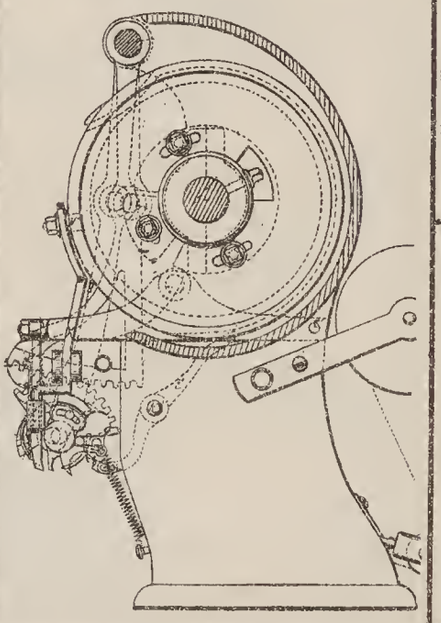
93,729. A. W. McKAY.
MACHINE FOR SOWING PLASTER, GRASS-SEED, AND GRAIN.



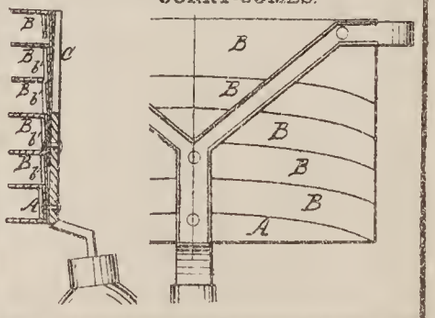
93,730. N. McKAY. **CULTIVATOR-PLOW.**



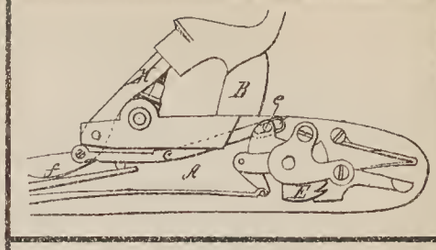
93,731.
D. MILLS.
SEWING-MACHINE.



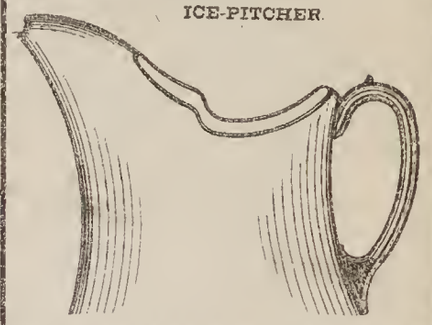
93,732. H. MITHOFF.
CURRY-COMES.



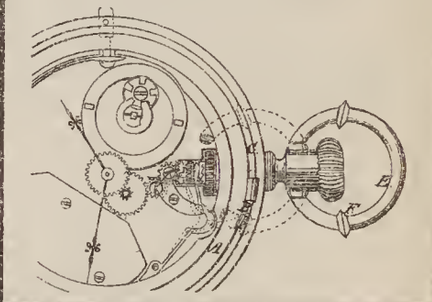
93,733. CYRUS T. MOORE.
SAFETY-GUARD FOR GUN-NIPPLES.



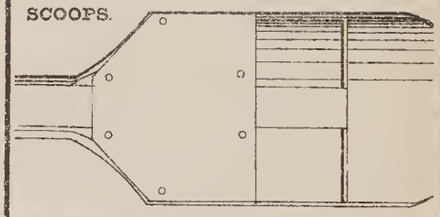
93,734. BERNARD MORAHAN.
ICE-PITCHER.



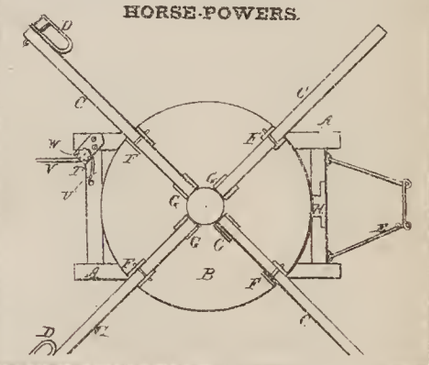
93,735. JAMES NARDIN.
STEM-WINDING WATCHES.



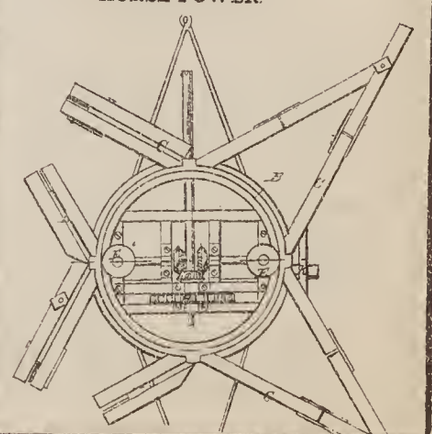
93,736. ANDREW NONNAMAKER.
SCOOPS.



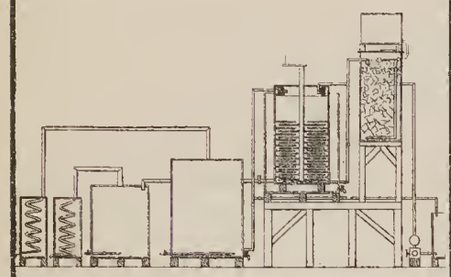
93,737. GEORGE OERLLEIN.
HORSE-POWERS.



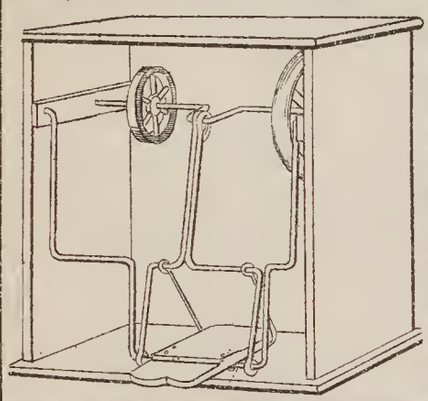
93,738. GEORGE OERLLEIN.
HORSE-POWER.



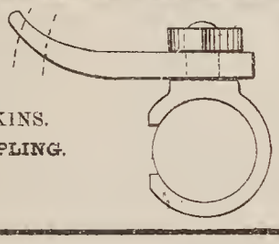
93,739, C. CHAUNCEY PARSONS.
PURIFYING PARAFFINE.



93,740, C. C. PARSONS. **TREADLES.**

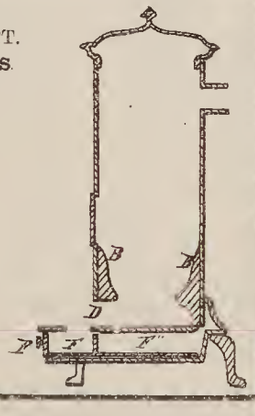


93,741,

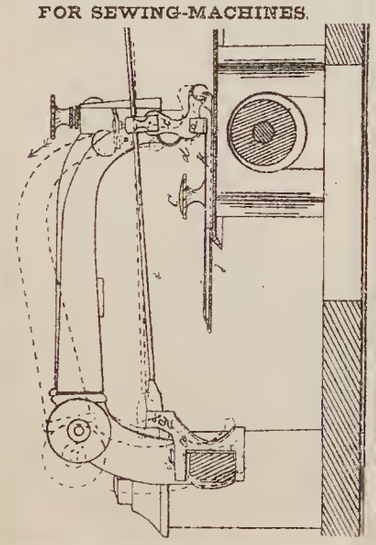


S. W. PERKINS.
THILL-COUPLING.

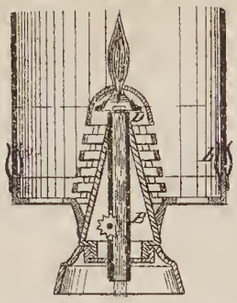
93,742,
JACOB S. PLATT.
COAL-STOVES.



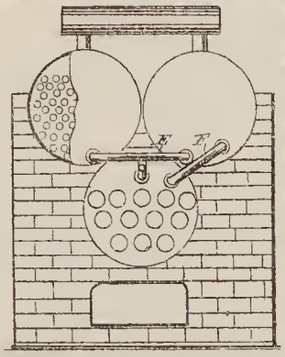
93,743, WM. PREISS.
TUCK-CREASING ATTACHMENT FOR SEWING-MACHINES.



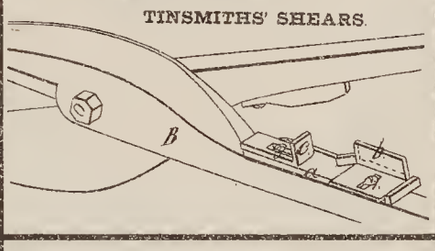
93,744,
PERRY PRETTYMAN.
LAMP-BURNERS.



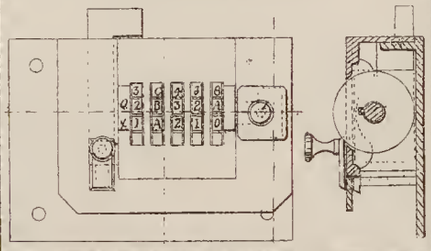
93,745,
JONATHAN QUIPP.
ROBERT LAW.
STEAM-GENERATORS.



93,746, ELLERY P. RALPH.
JAMES HANNAN.
TINSMITHS' SHEARS.

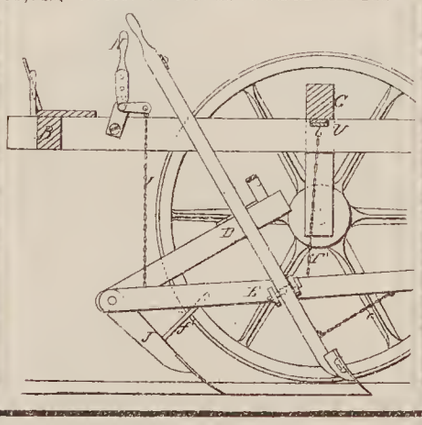


93,747. NICHOLAS REED.
COMBINATION-LOCKS.

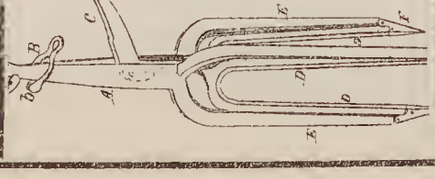


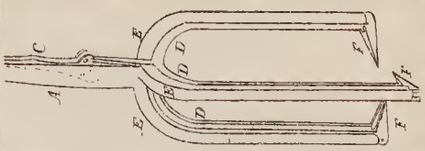
93,748, JOHN L. REMLINGER. **BUTTONS.**

93,749, JOHN J. ROSE. **CULTIVATOR.**

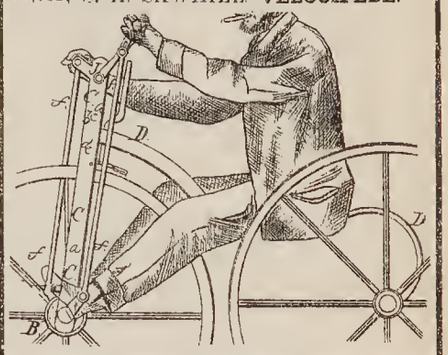


93,750, JOHN W. ROW.
HORSE HAY-FORKS.





93,751, S. H. SAWHILL. **VELOCIPEDE.**

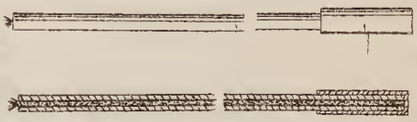


93,752. TAL. P. SHAFFNER.
EXPLOSIVE COMPOUND FOR USE IN FIRE-ARMS, BLASTING.

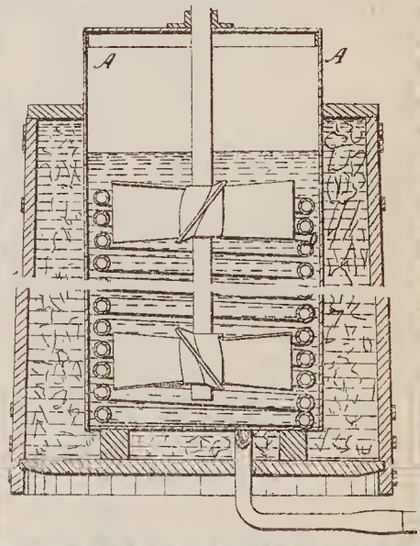
93,753. TAL. P. SHAFFNER.
EXPLOSIVE COMPOUND.

93,754, TAL. P. SHAFFNER.
EXPLOSIVE COMPOUND.

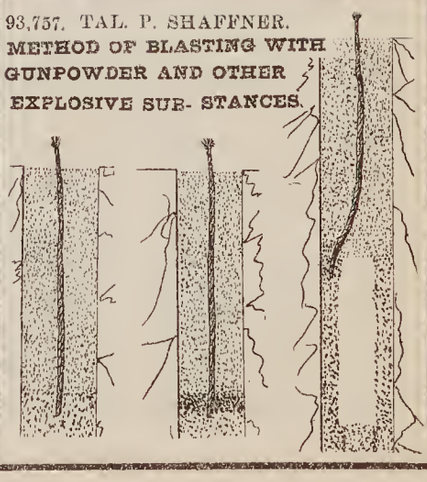
93,755, TAL. P. SHAFFNER.
BLASTING-FUSE.



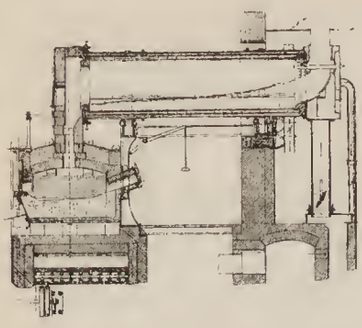
94,756, TAL. P. SHAFFNER.
MANUFACTURE OF NITRO-GLYCERINE.



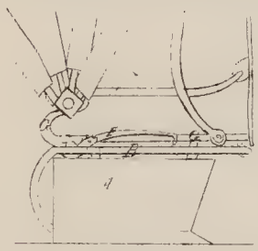
93,757. TAL. P. SHAFFNER.
METHOD OF BLASTING WITH GUNPOWDER AND OTHER EXPLOSIVE SUB- STANCES.



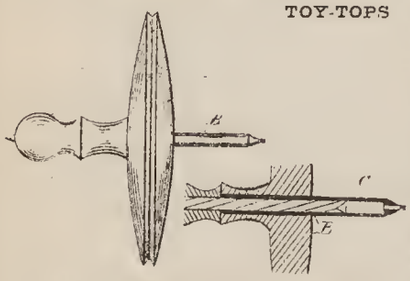
93,758. C. W. SIEMENS.
MAKING CAST-STEEL



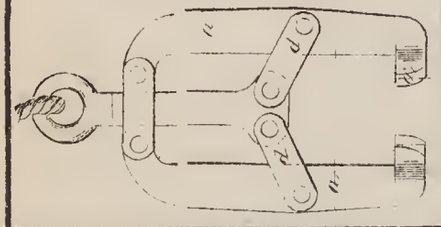
93,759. W. B. SLUTTER.
DEVICE FOR SHIFTING BUGGY-TOPS



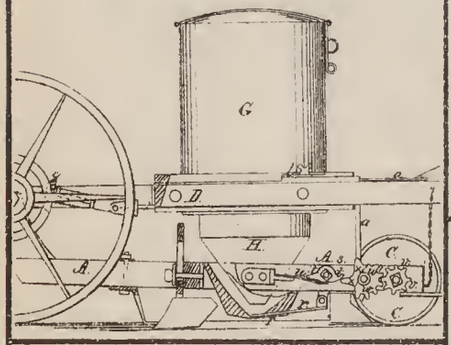
93,760. THOMAS E. SPARKS.
TOY-TOPS



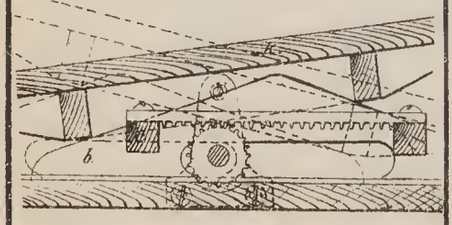
93,761. WILLIAM A. SPRING.
ADJUSTABLE CLUTCHES FOR LIFTING WELL-TUBING



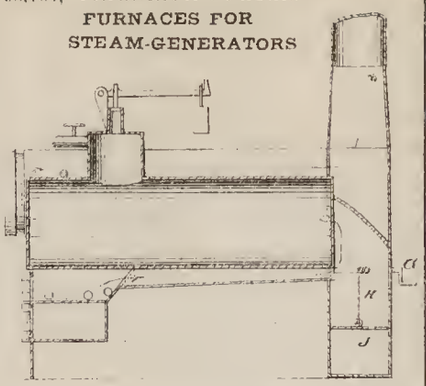
93,762. JOHN STARK
SEEDING-MACHINES



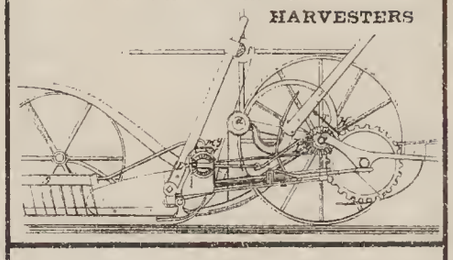
93,763. A. H. STODDARD.
CAMERA-STANDS



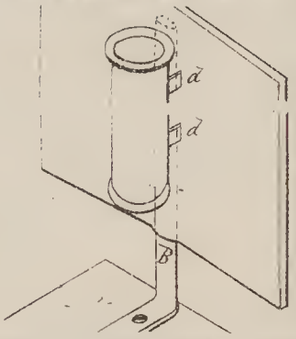
93,764. FRIEDRICK SULTER.
FURNACES FOR STEAM-GENERATORS



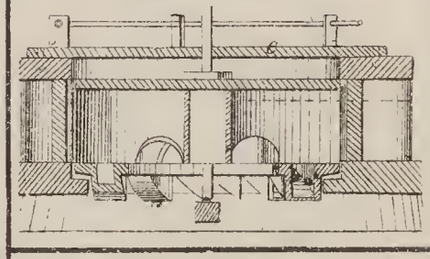
93,765. LORENS SWENSON.
HARVESTERS



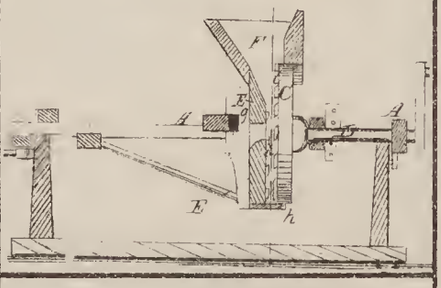
93,766.
O. W. SWIFT.
FASTENER FOR WHIP-SOCKETS.



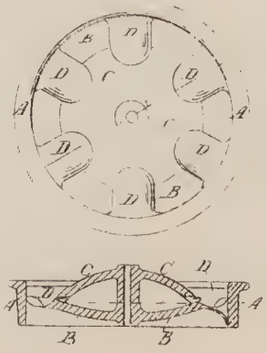
93,767. S. D. TAYLOR.
WATER-WHEELS.



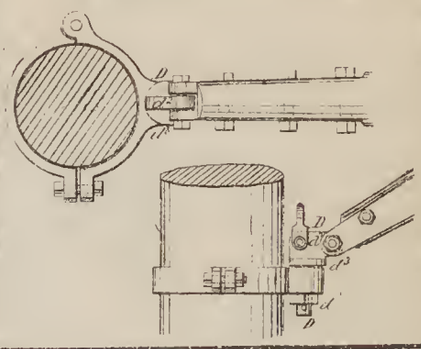
93,768. C. W. TERPENING.
CURD-GRINDERS.



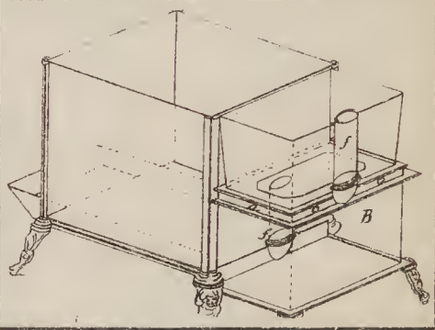
93,769. W. R. THOMAS. CAR-WHEEL



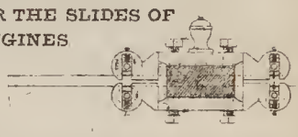
93,770. JAMES E. TIBBETTS.
TRUSSES FOR CONNECTING BOOMS TO MASTS



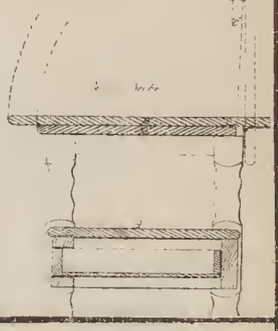
93,771. JOEL TIFFANY. COMBINED WATER-TANK AND WARMING-CLOSET.



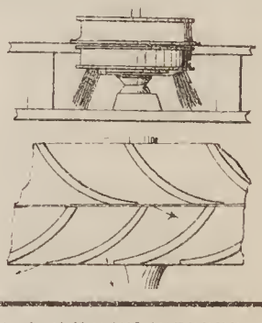
93,772. CHRISTOPHER C. TRACY.
OILER FOR THE SLIDES OF STEAM-ENGINES



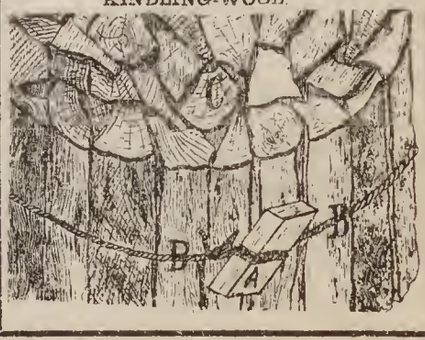
93,773. ABIGAIL W. VILES.
CHAIR, TABLE, AND STAND COMBINED.



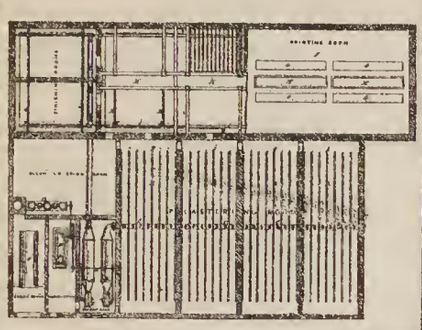
93,774. P. H. WAIT. WATER-WHEELS.



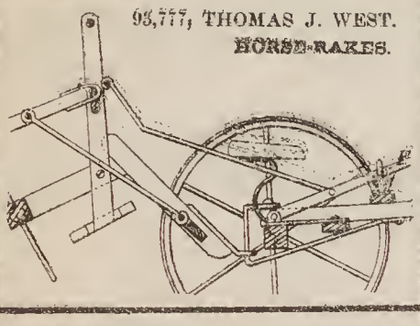
93,775. J. WESLEY WEBBER.
KINDLING-WOOD.



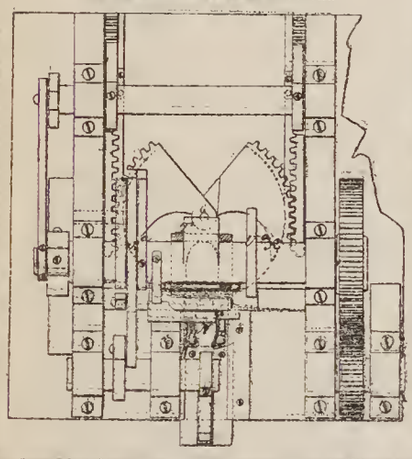
93,776, JOHN WEEMS.
WILLIAM WEEMS.
MANUFACTURE OF FLOOR OIL-CLOTHS.



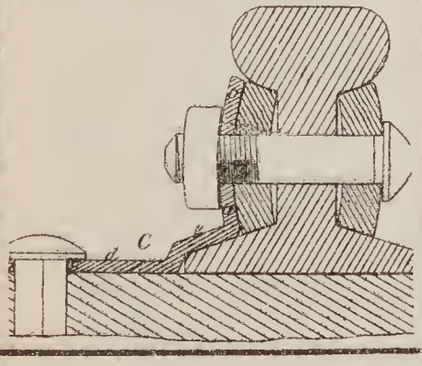
93,777, THOMAS J. WEST.
HORSE-RAKES.



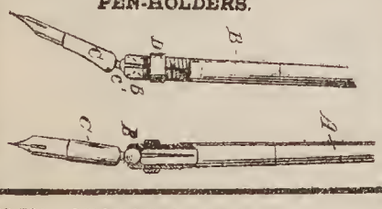
93,778, CHARLES P. WILLIAMSON.
HORSESHOE-MACHINE.



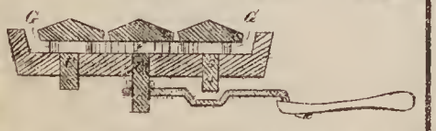
93,779, JOHN A. WILSON.
RAILWAY STOP-CHAIR.



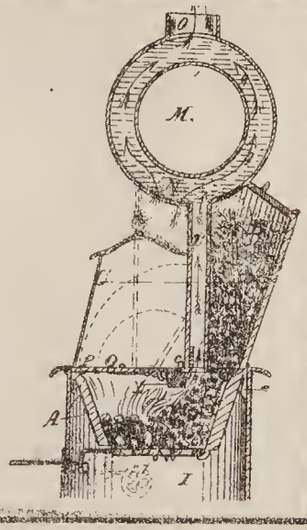
93,780, CHARLES G. WILSON.
PEN-HOLDERS.



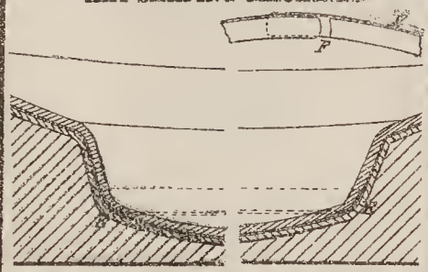
93,781, GEORGE A. WING.
STOVE AND FURNACE-GRATE.



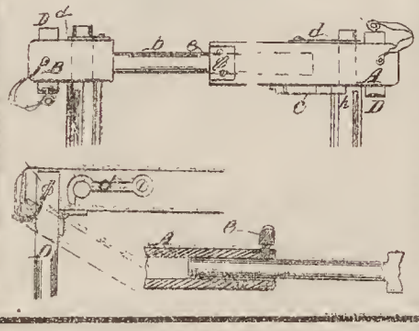
93,782,
GEORGE A. WING.
BASE-BURNING STOVE.



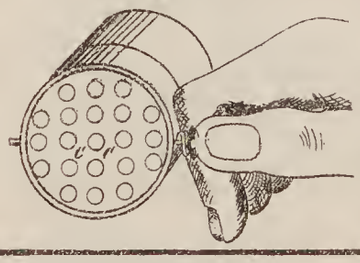
93,783. SAMUEL WING.
HAT-SHAPING MACHINES.



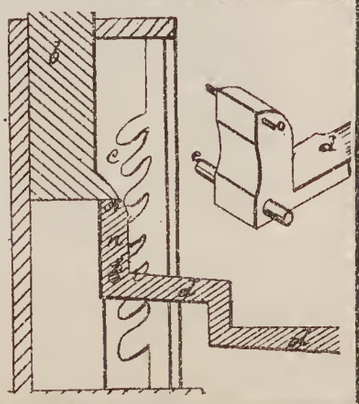
93,784, GEORGE C. WINTERS,
QUILTING-FRAME.



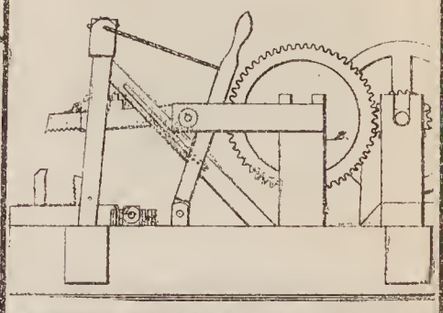
93,785, FERDINAND WOLF.
PEPPER-CASTERS.



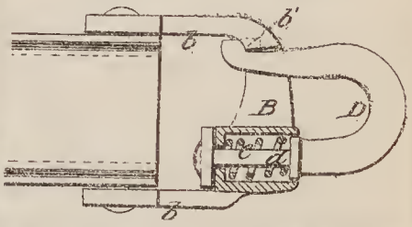
93,786,
JOS. E. WOLL.
CARRIAGE-JACKS.



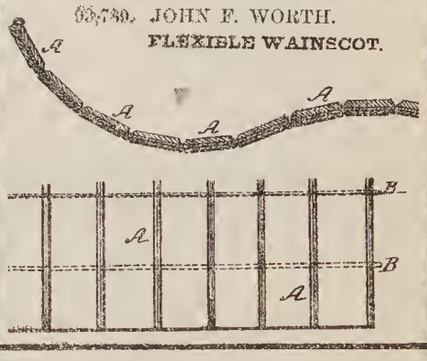
93,787,
HOLLIS WOODWARD.
SAWING-MACHINES.



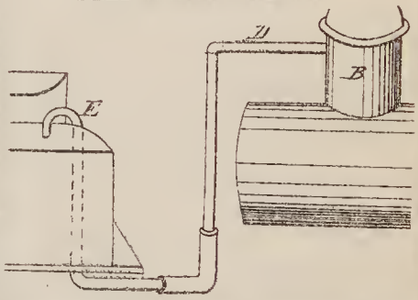
93,788. L. WORSTER.
COCK-EYES FOR HARNESS.



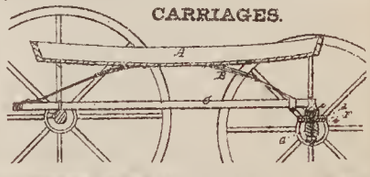
93,789. JOHN F. WORTH.
FLEXIBLE WAINSCOT.



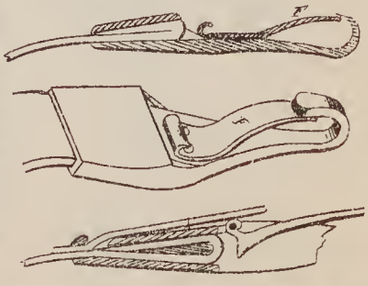
93,790, PETER C. WORTMAN.
FEED WATER-HEATERS.



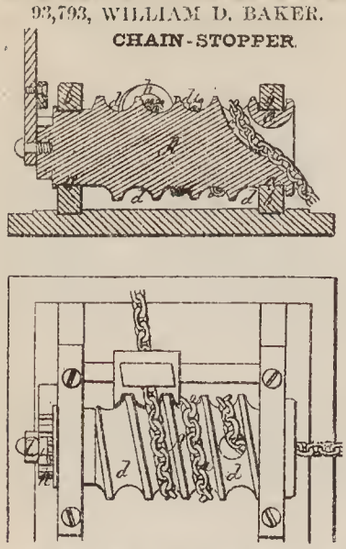
93,791. BENJAMIN F. ADAMS.
CARRIAGES.



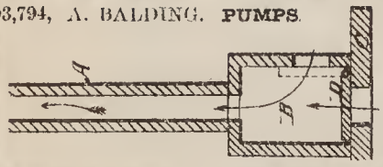
93,792, THEODORE BAILEY.
H. H. YOUNG.
BUCKLES.

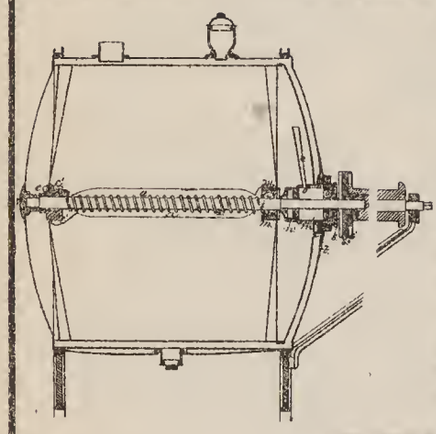


93,793, WILLIAM D. BAKER.
CHAIN-STOPPER.



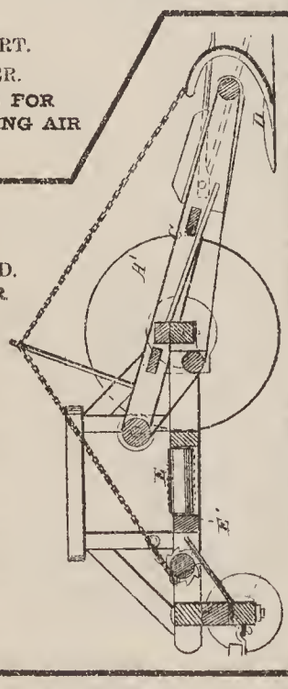
93,794, A. BALDING. **PUMPS.**





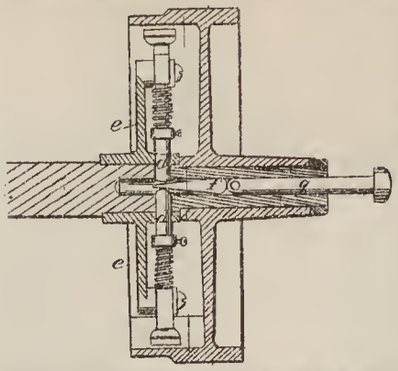
93,795,
C. N. GILBERT.
J. F. BARKER.
APPARATUS FOR CARBURETTING AIR

93,796.
H. H. BEARD.
EXCAVATOR.

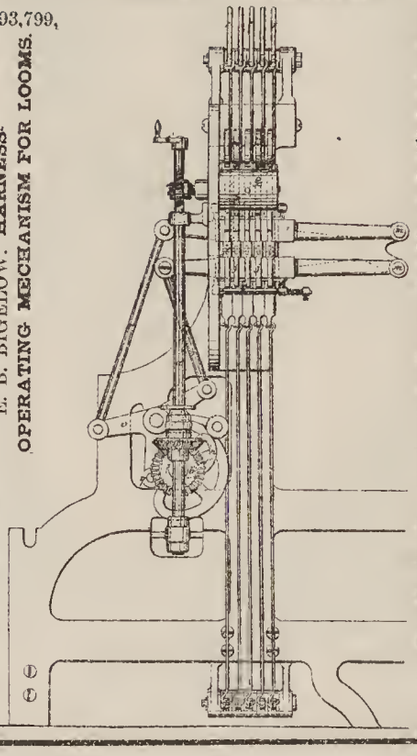


93,797.
MOSES BERNHEIM.
METALLIC REMEDY FOR RHEUMATISM.

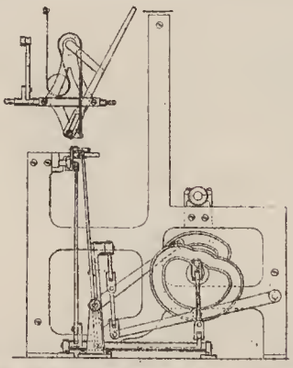
93,798, E. B. BIGELOW.
FRICTION-CLUTCHES.



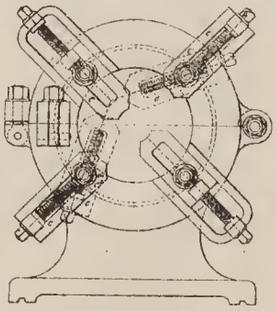
93,799,
E. B. BIGELOW. **HARNESS-OPERATING MECHANISM FOR LOOMS.**



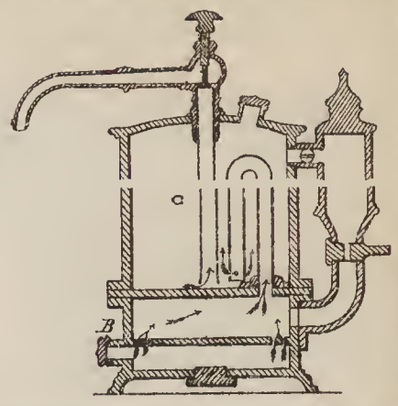
93,800, E. B. BIGELOW. **POWER-LOOM FOR WEAVING PILED FABRICS.**



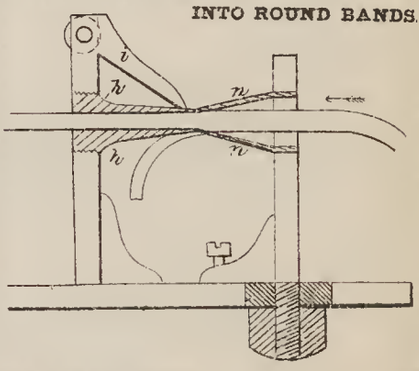
93,801, JAS. BRODIE.
STEADY-REST FOR LATHES.



93,802, J. R. BROWN.
SODA-WATER APPARATUS.

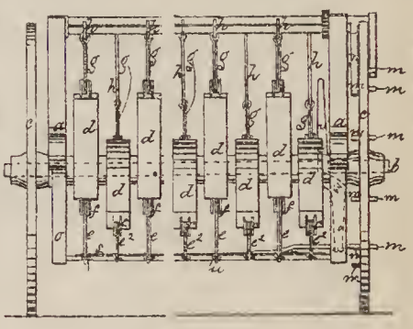


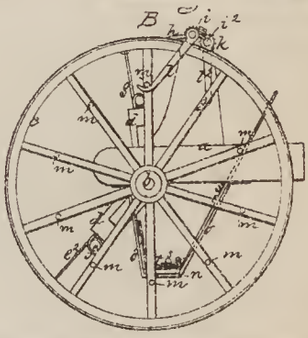
93,803, CHRISTOPHER G. BURNHAM.
MACHINE FOR CUTTING LEATHER INTO ROUND BANDS.



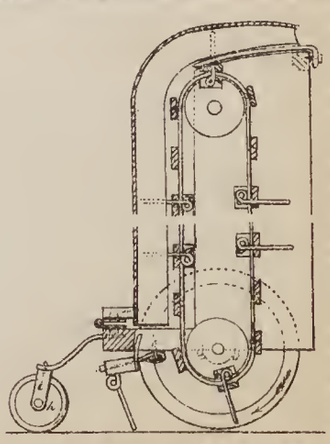
93,804, EBEN S. BURNS. **PAINT.**

93,805, A. H. CARYL. **HAY-TEDDER.**

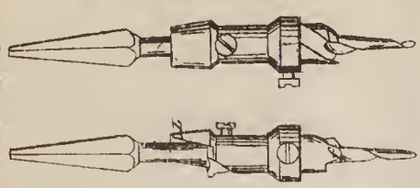




93,806.
JACOB F. CHANDLER.
HAY-RAKER AND LOADER.



93,807. WM. A. CLARK.
COUNTERSINK AND BIT.



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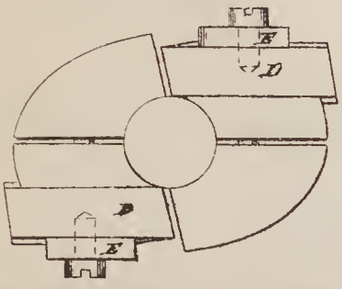
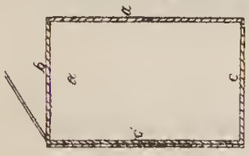
HOLLOW AUGER.



93,809, H. H. CORBIN. **PAPER BOX.**



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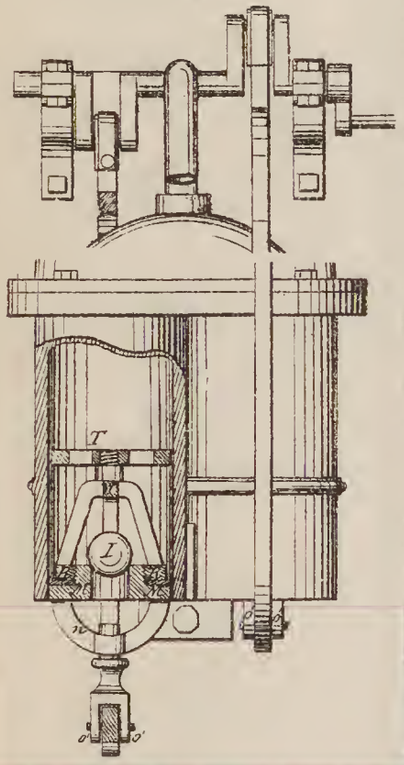
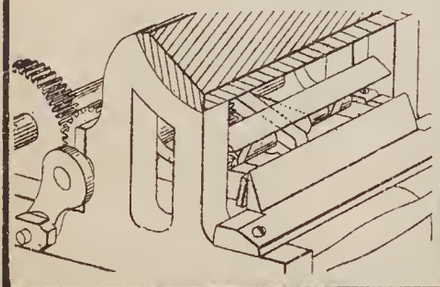
PUMPS.



93,811, HORACE DANIELS.
MECHANISM FOR OPERATING THE NIPPERS OF COMBING-MACHINES.



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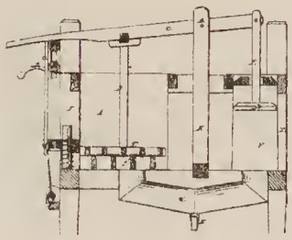
WASHING-MACHINE.



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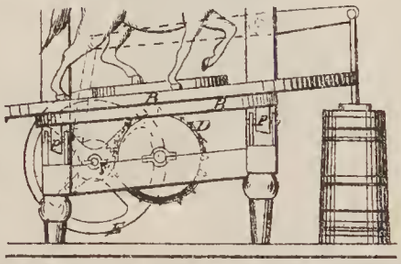
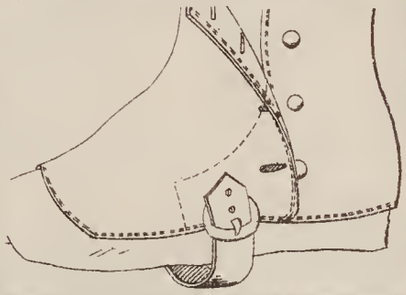
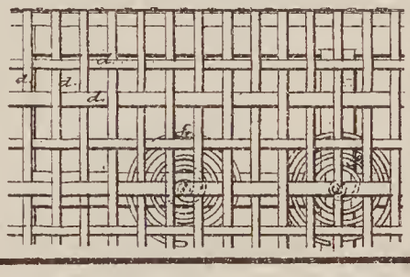
HORSE-POWER.



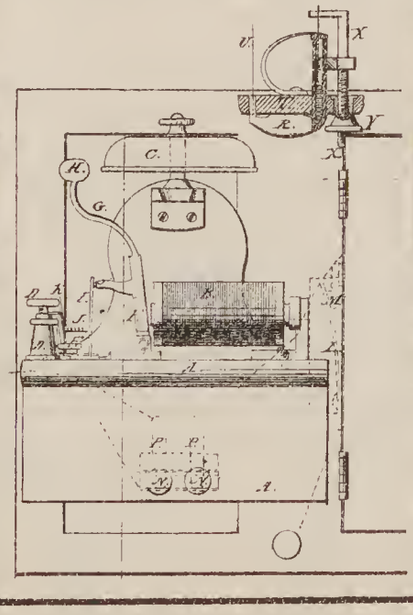
93,814, FRANK T. FERGUSON. **SHOES.**



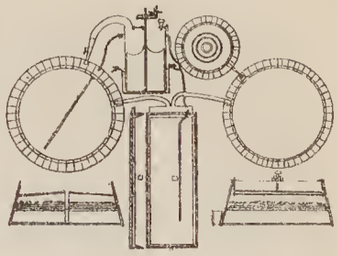
93,815. CHESTER D. FLYNT.
SPRING CUSHIONS.



93,816, EUGENE FONTAINE. **ELECTRIC FIRE AND BURGLAR-ALARMS.**



93,817, LEONARD D. GALE.
MANUFACTURE OF SUGAR OF LEAD AND ACETIC ACID.



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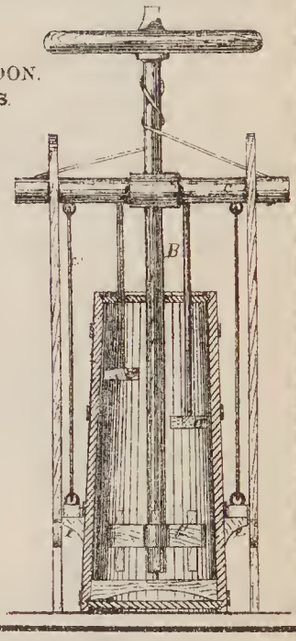
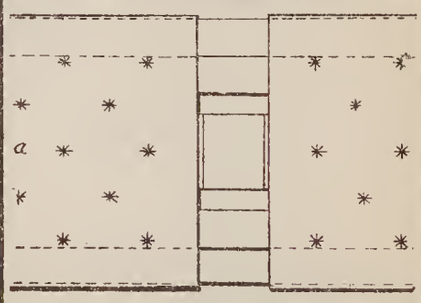
W. L. GORDON.
CHURNS.



93,819, J. DUTELL GREENE.
LIFE-PRESERVING MATTRESS.



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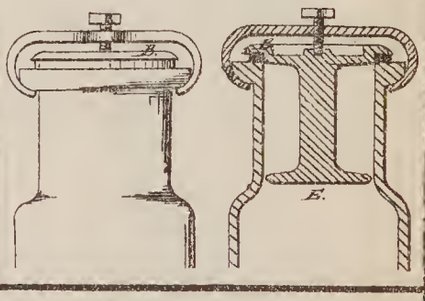
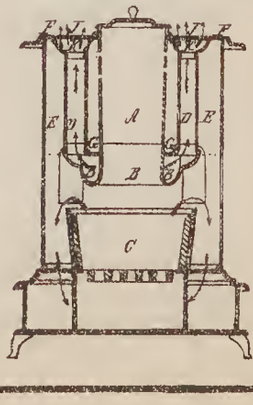
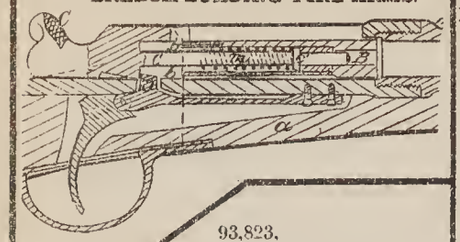
FRUIT-JARS.



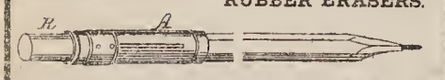
93,821, LUTHER W. HARWOOD.
BASE-BURNING STOVES.



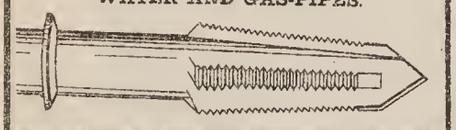
93,822. B. B. HOTCHKISS.
BREECH-LOADING FIRE-ARMS.



93,823.
SAMUEL D. HOVEY.
RUBBER ERASERS.

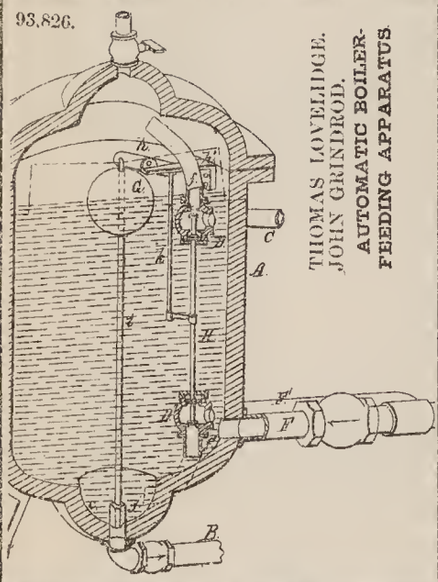


93,824, WILLIAM HUMPHREYS.
COMPOUND TOOL FOR WATER AND GAS-PIPES.

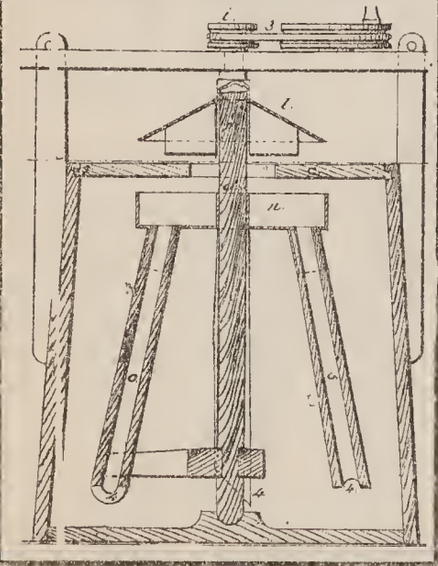


93,825, ISRAEL KINNEY.
CARRIAGE-SEAT.

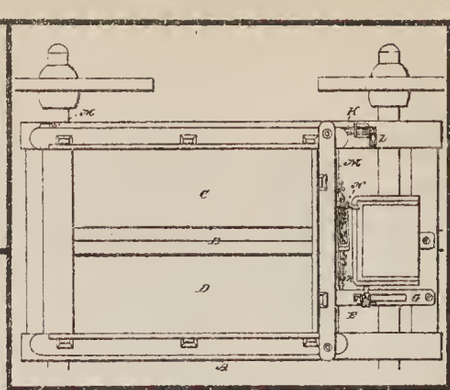
93,826.
THOMAS LOVELIDGE.
JOHN GRINDROD.
AUTOMATIC BOILER-FEEDING APPARATUS.



93,827, ADDISON MOE. **CHURNS.**



93,828, CYRUS T. MOORE.
DUMPING-WAGON.



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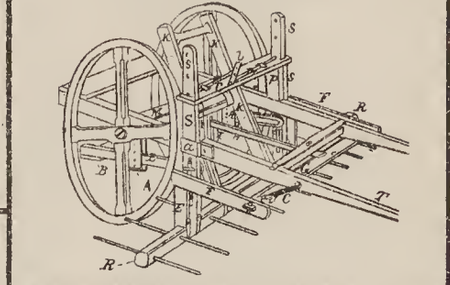
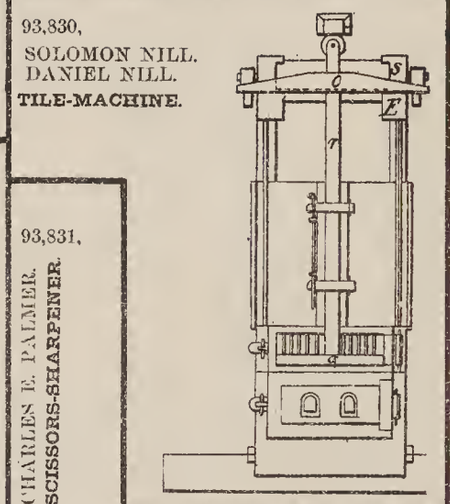
HORSE HAY-RAKES.



93,830,
SOLOMON NILL.
DANIEL NILL.
TILE-MACHINE.



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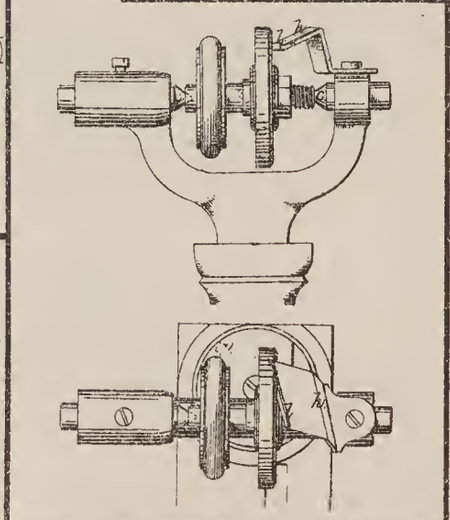
CHARLES E. PALMER.
SCISSORS-SHARPENER.



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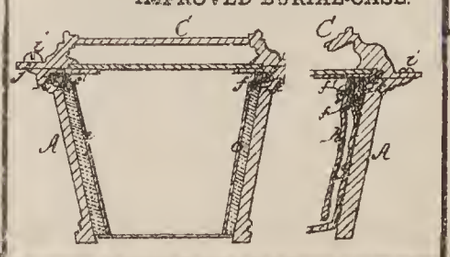
IMPROVED BURIAL-CASE.



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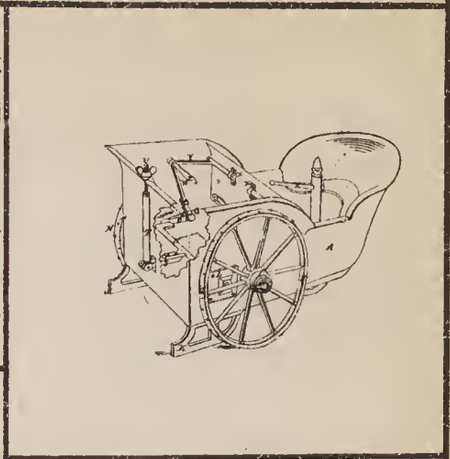
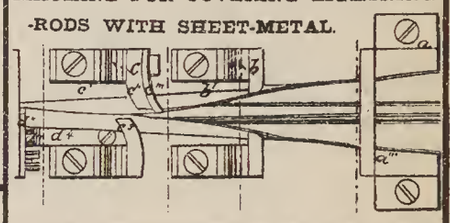
ICE-VELOCIPEDE.



93,834, WILLIAM S. REYBURN.
F. J. MARTIN.
MACHINE FOR COVERING LIGHTNING-RODS WITH SHEET-METAL.



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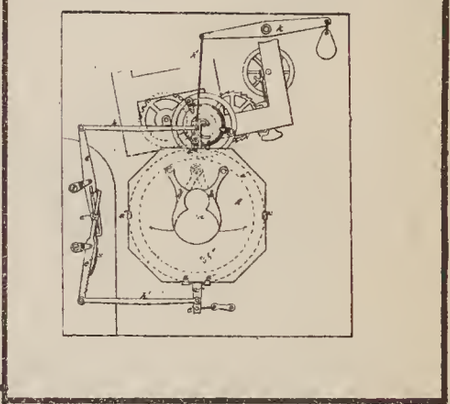
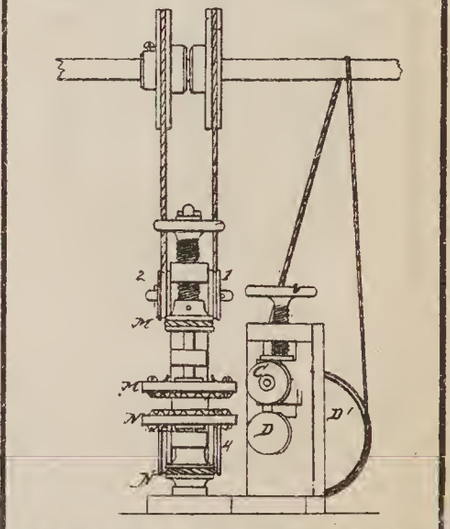
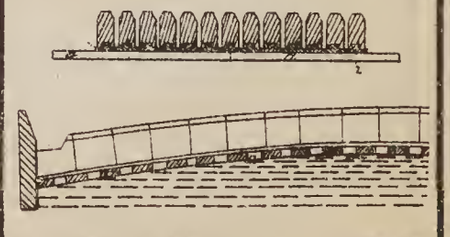
PRINTING PHOTOGRAPHIC VIGNETTES



93,836, JOHN C. RICHARDSON
MACHINE FOR POUNCING HATS.



93,837. WM. O. ROBBINS.
WOOD PAVEMENT.



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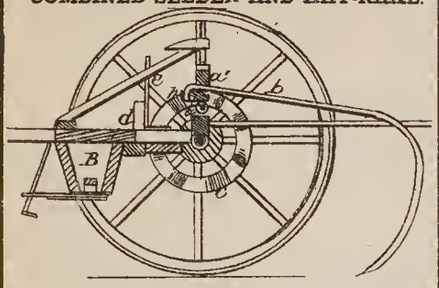
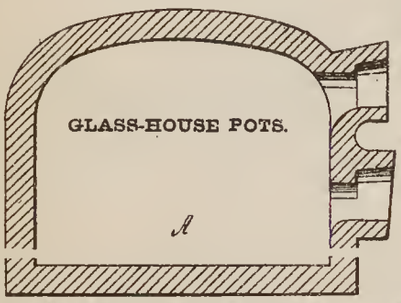
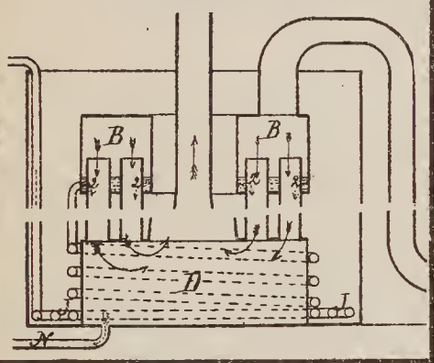
COMBINED SEEDER AND HAY-RAKE.



93,839, THOMAS his × mark. SCANLAN.

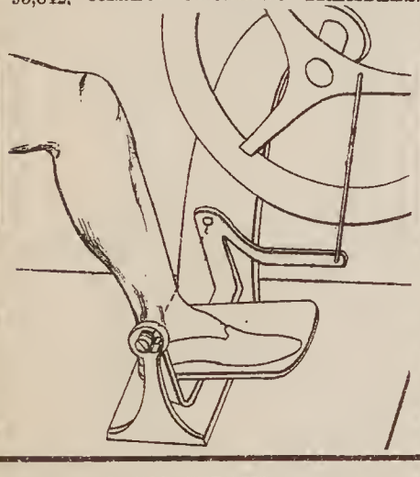


93,840. JOHN J. SCHILLINGER.
COOLING AND VENTILATING-APPARATUS.

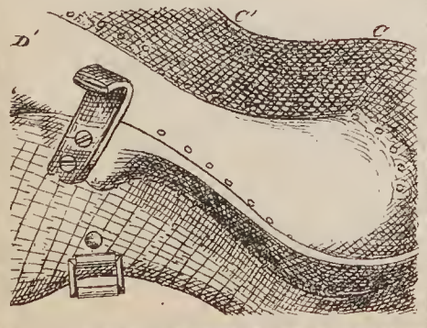


93,841. F. H. SMITH. **PROCESS OF PRESERVING VEGETABLES.**

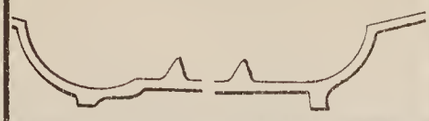
93,842, CARLOS STEBBINS. **TREADLES.**



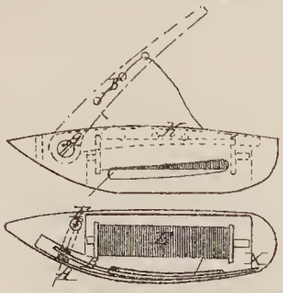
93,843, JACOB STRAUS.
SIDE-SADDLE TREE.



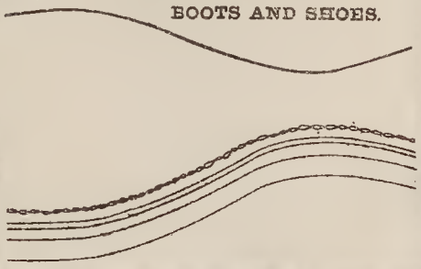
93,844, CHESTER W. SYKES.
CARVING-DISH.



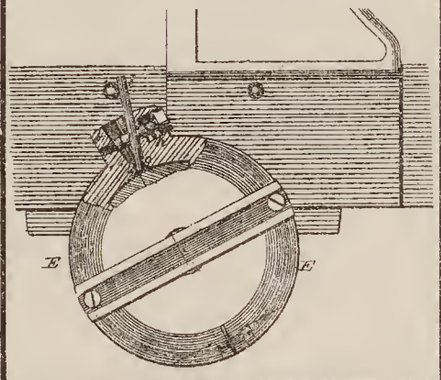
93,845, JAMES C. WADE.
SHUTTLES FOR SEWING-MACHINES.



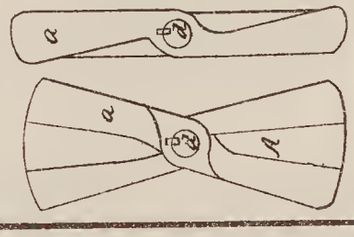
93,846. GEORGE W. WALKER.
BOOTS AND SHOES.



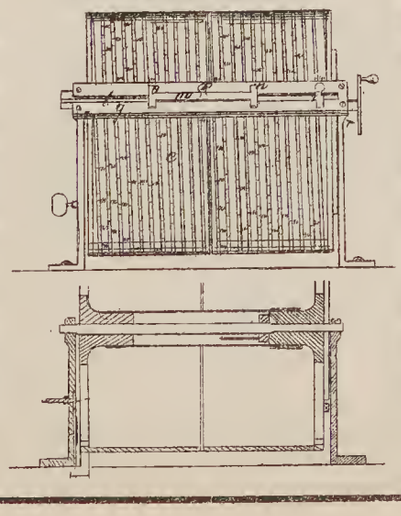
93,847. ALONZO WHITCOMB.
MACHINES FOR PLANING METAL.



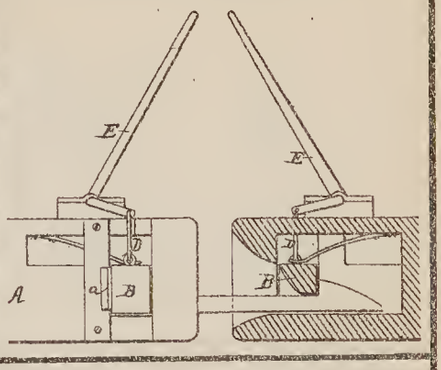
93,848, FREDERICK WITTRAM.
SCREW-PROPELLERS.



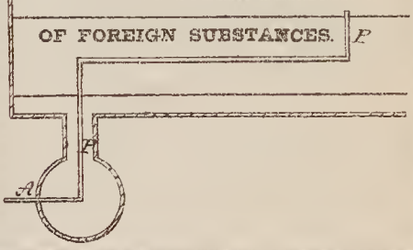
93,849, ELIZUR WRIGHT.
COMPUTING-APPARATUS.



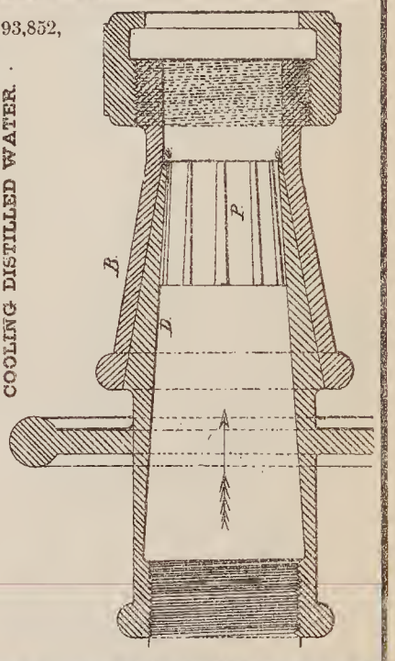
93,850, ROBERT K. ANDREWS.
RAILWAY-CAR COUPLING.



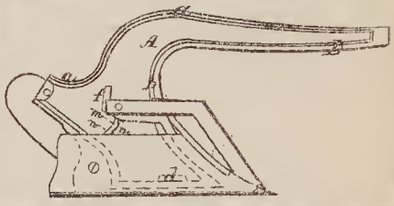
93,851, FRANCIS ARMSTRONG.
RELIEVING STEAM-GENERATORS OF FOREIGN SUBSTANCES.



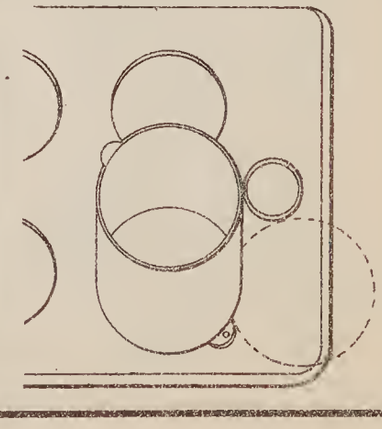
93,852, G. W. BAIRD.
APPARATUS FOR AERATING AND COOLING DISTILLED WATER.



93,853, EPHRAIM BALL, **PLOWS.**



93,854, JOHN S. BROOKS.
HOT-WATER BOILERS FOR STOVES.



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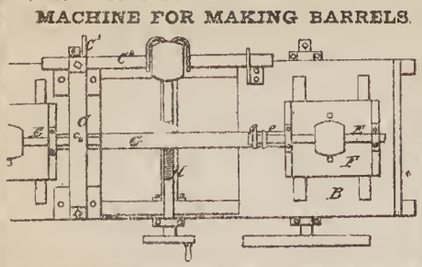
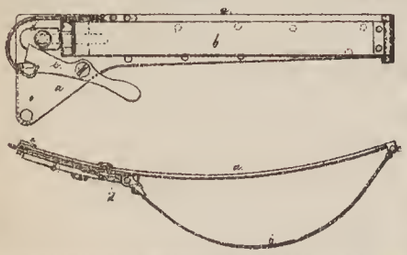
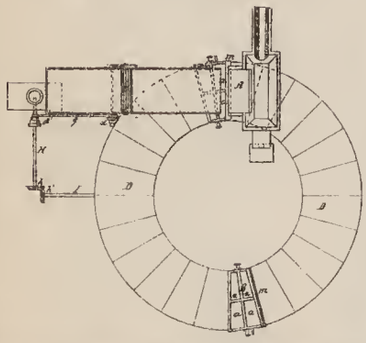
MACHINE FOR MAKING BARRELS.



93,856, A. W. BROWNE.
SAFETY-ATTACHMENTS FOR POCKETS.



93,857, JAS. A. BURDEN.
MANUFACTURE OF PIG-BLOOMS FROM CAST-IRON.



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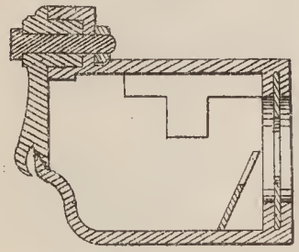
RAILWAY-CAR-AXLE BOX.



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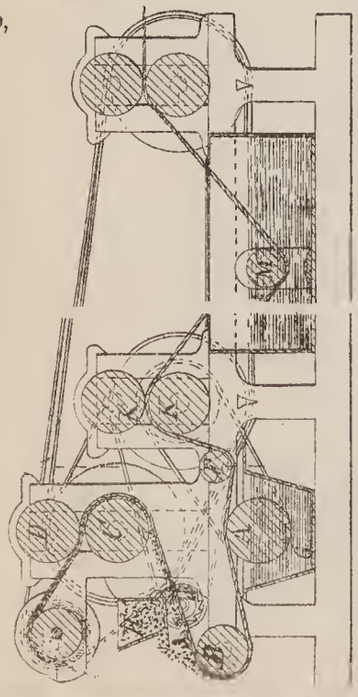
JUDD M. COBB.
READY-PREPARED ROOFING.



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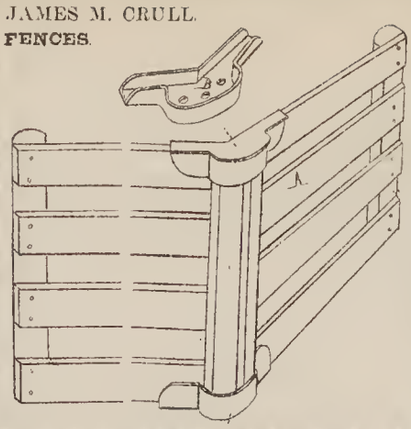
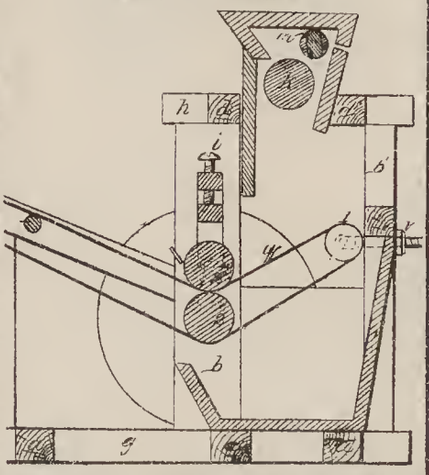
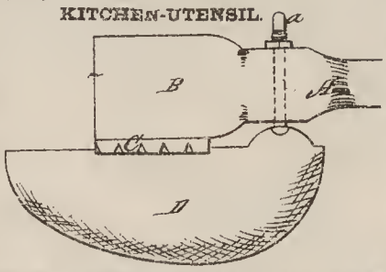
JAMES M. CRULL.
FENCES.



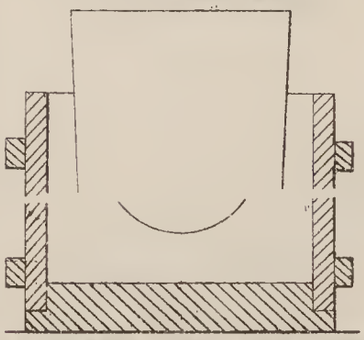
93,861, THEODORE F. DENISTON.
GEORGE C. PROSSER.
JOHNSON J. DENISTON.
CIDER AND WINE-MILL



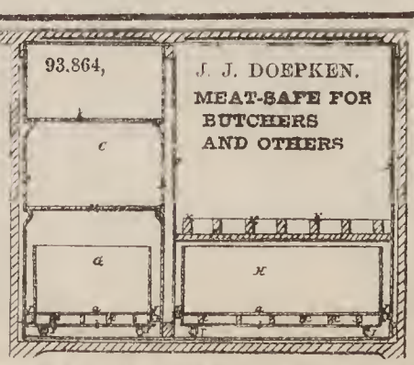
93,862, JACOB J. DIEHL.
KITCHEN-UTENSIL.



93,863. HENRY DISSTON.
JONATHAN MARSDEN.
CASTING STEEL INGOTS.

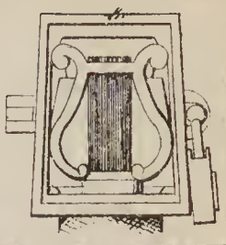


93,864, J. J. DOEPKEN.
MEAT-SAFE FOR BUTCHERS AND OTHERS

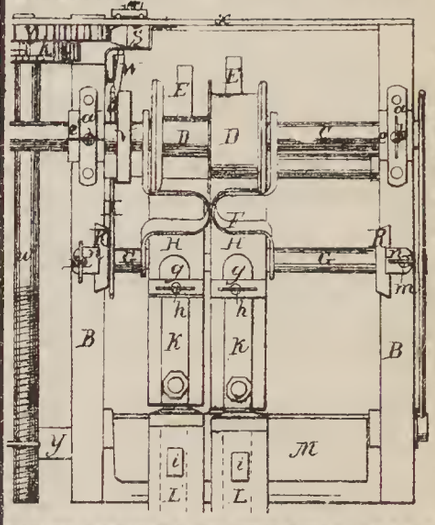


93,865, JOHN OTTO DONNER.
MODE OF TREATING BONE-BLACK FOR FILTERING SIRUPS.

93,866,
JAMES DUGAN.
BOTTLE-LOCK.



93,867,
JOHN EAST.
MACHINES FOR DRESSING MILLSTONES.



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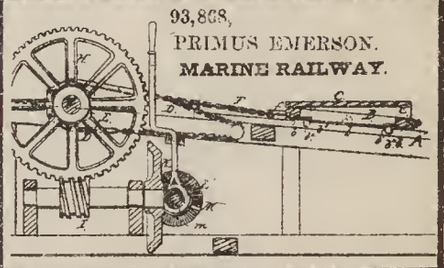
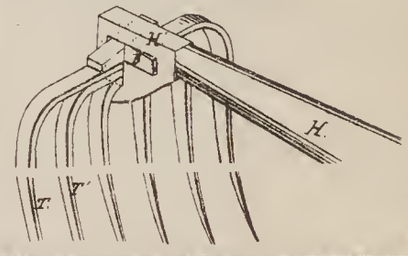
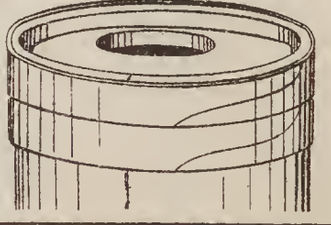
PRIMUS EMERSON.
MARINE RAILWAY.



93,869, JOHN H. FOSTER.
CULTIVATOR-HOES.



93,870. GEORGE FRAUENBERGER.
MANUFACTURE OF OYSTER-KEGS.



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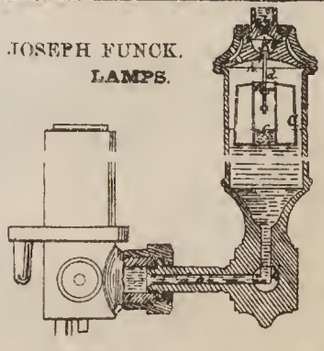
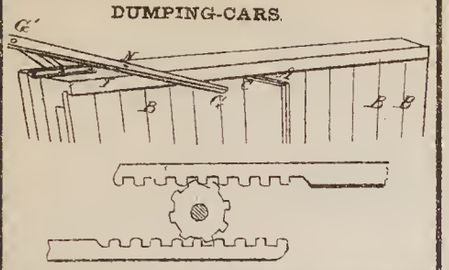
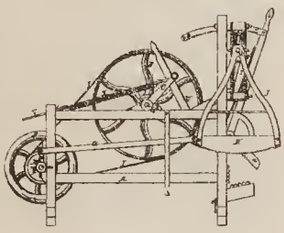
JOSEPH FUNCK.
LAMPS.



93,872, CHARLES GATES.
DUMPING-CARS.



93,873, A. GAUDRON.
SAWING-MACHINES.



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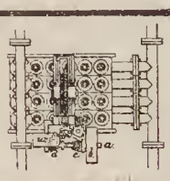
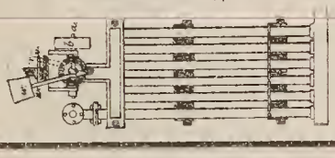
EDWARD GREEN.
BOILER-TUBE SCRAPING DEVICE.





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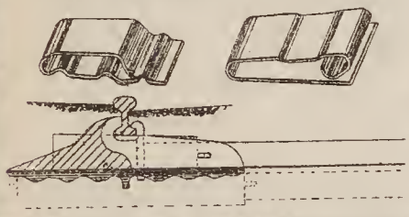
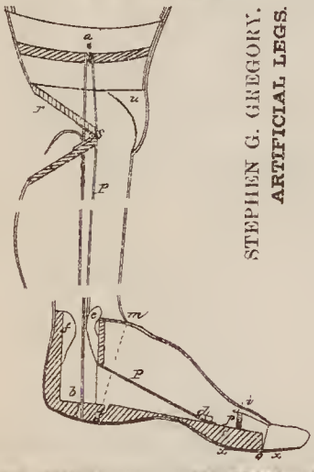
RAILWAY-CHAIR AND SLEEPER.



93,876.
STEPHEN G. GREGORY.
ARTIFICIAL LEGS.



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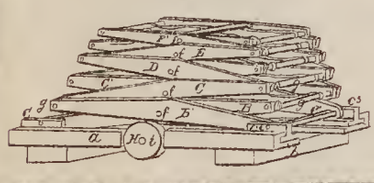
FIRE-LADDER.



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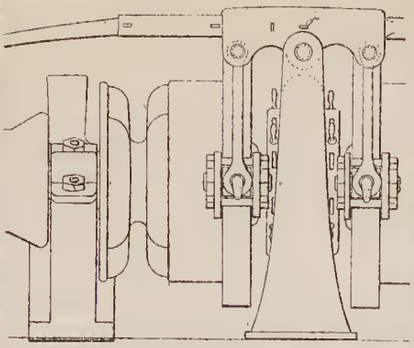
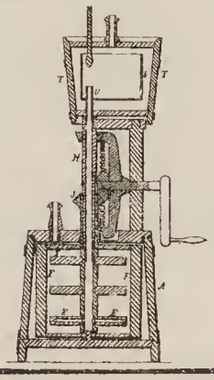
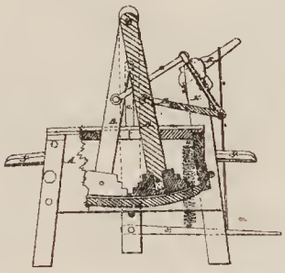
WINDLASS.



93,879, SAMUEL HARPER. **CHURNS.**



93,880, ORRIN L. HART.
WASHING-MACHINES.



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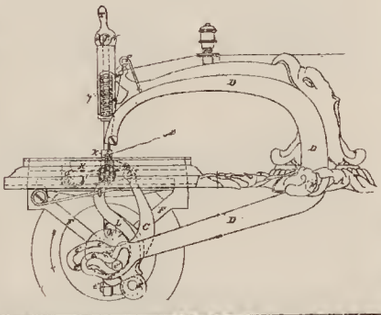
SEWING-MACHINE.



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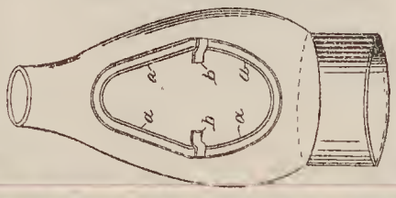
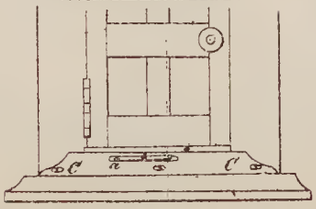
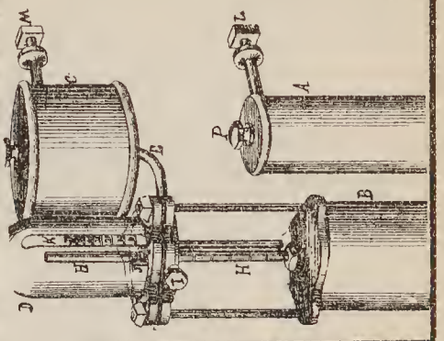
REFLECTING LAMP-CHIMNEYS.



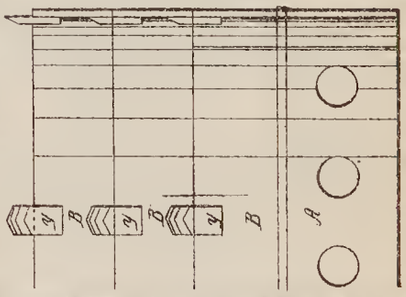
93,883. COLEMAN HICKS.
WEATHER-STRIP.



93,884, WILLIAM HODGSON.
STEAM WATER-GAUGE INDICATOR FOR BOILERS.



93,885, ISRAEL HOGELAND.
FRUIT-DRIER.



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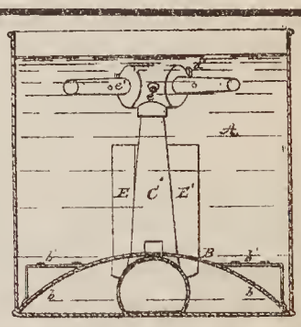
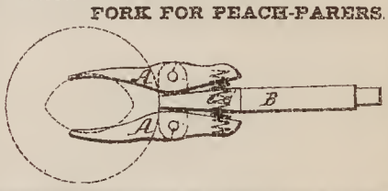
JOHN W. HOIT.
WASH-BOILERS.

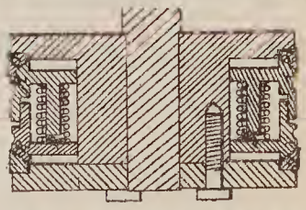


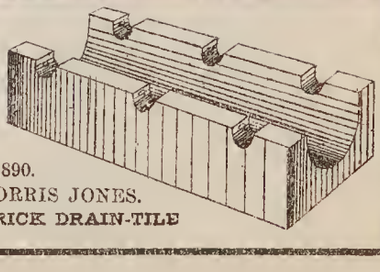
93,887. CHARLES D. HOUSE.
FORK FOR PEACH-PARERS.



93,888, DAVID W. HUGHES.
ATTACHING PLOW-COULTERS.

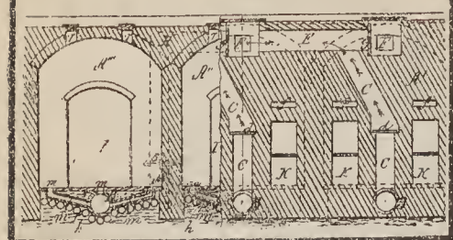
93,889. WM. JOHNSON.
STEAM-CYLINDER PISTON-PACKING.





93,890.
NORRIS JONES.
BRICK DRAIN-TILE

93,891, BALTHASAR KREISCHER.
BURNING-KILNS



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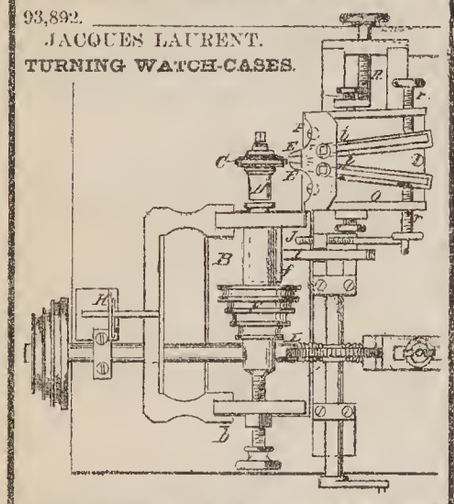
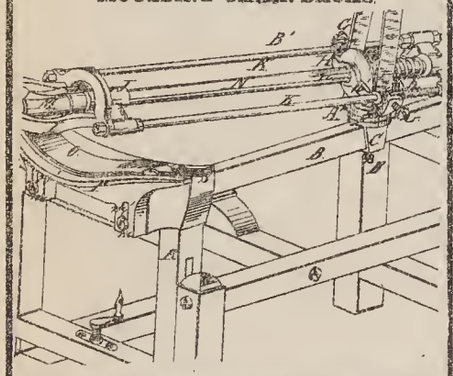
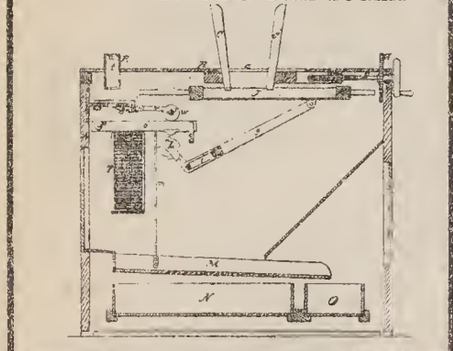
TURNING WATCH-CASES.



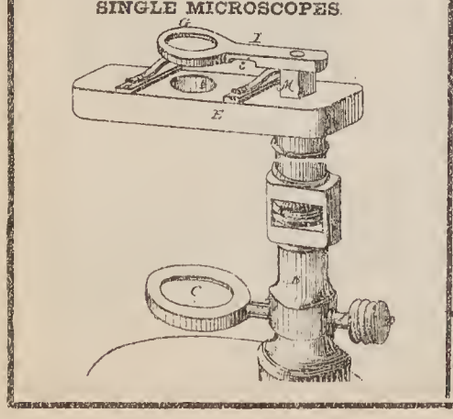
93,893, JOHN LEMMAN.
MOULDING CHAIR-BACKS.



93,894, AL. LETOREY.
MACHINE FOR CUTTING AND REDUCING LOAF-SUGAR.

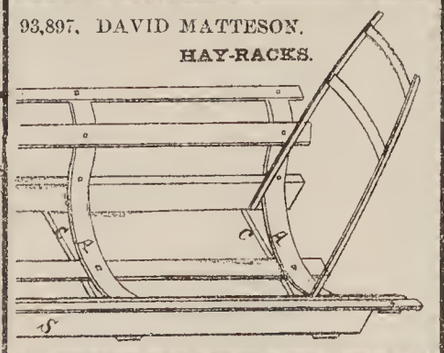


93,895, JAMES H. LOGAN.
SINGLE MICROSCOPES.

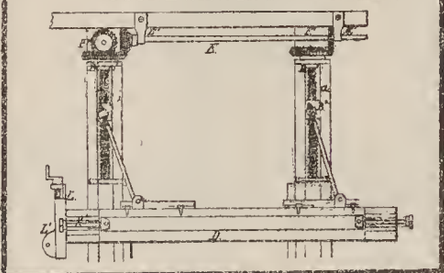


93,896, SIDNEY S. MARQUES.
KNIFE FOR SEEDING STONE-FRUIT.

93,897, DAVID MATTESON.
HAY-RACKS.



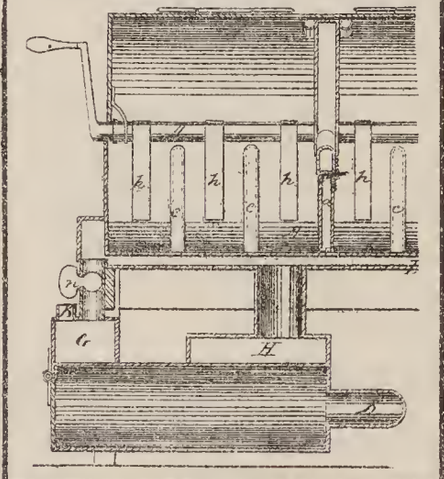
93,898, RICHARD MORGAN.
STONE-SAWING MACHINE.



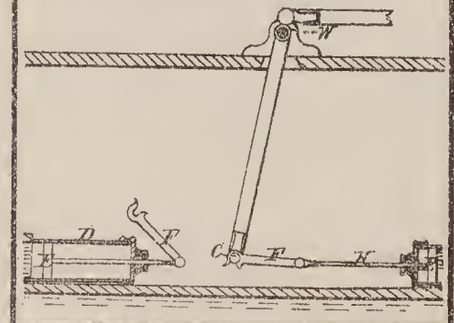
93,899, A. L. NOLF. F. L. A. PIOCHE.
IMPROVED PROCESS OF TREATING ORES WITH COPPER-AMALGAM BY MEANS OF ELEC- TRIC CURRENTS.

93,900, ALFRED PARAF.
MATERIAL FOR DYEING AND PRINTING, OBTAINED FROM MADDER.

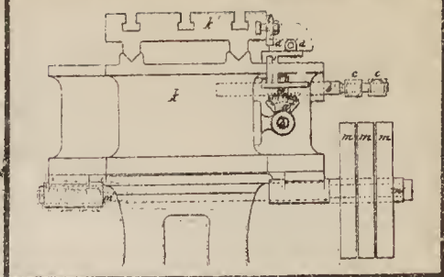
93,901, JOHN W. PERRY.
FEATHER-RENOVATORS.



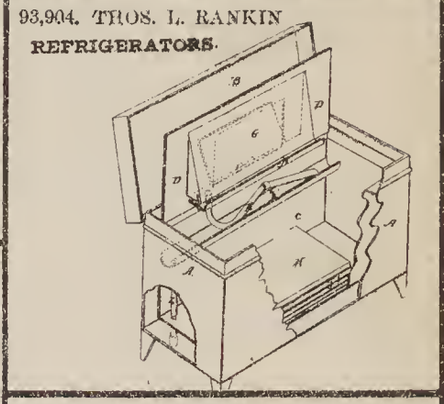
93,902, FREDERICK R. PIKE.
PROPELLING-APPARATUS.



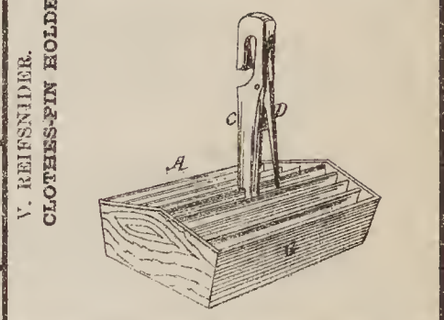
93,903, FRANCIS A. PRATT.
MACHINES FOR PLANING METAL.



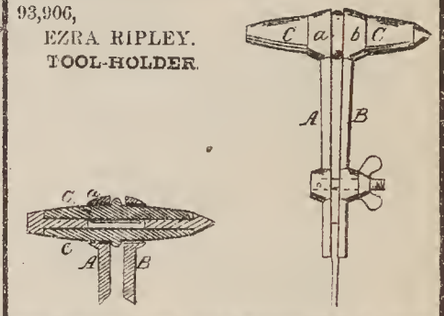
93,904, THOS. L. RANKIN.
REFRIGERATORS.



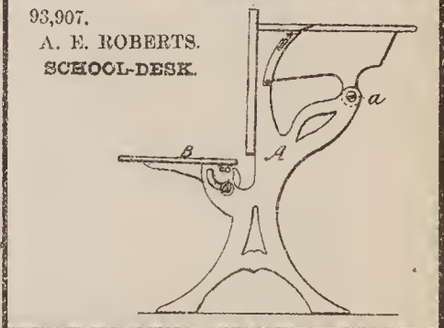
V. REIFSNIDER. 93,905,
CLOTHES-PIN HOLDER.



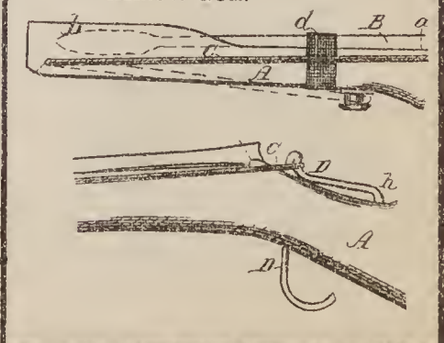
93,906, EZRA RIPLEY.
TOOL-HOLDER.



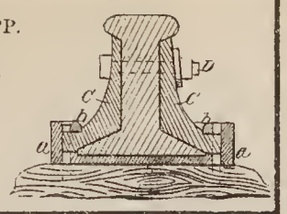
93,907, A. E. ROBERTS.
SCHOOL-DESK.



93,908, CHARLES ROBINSON.
ARROW-GUN.

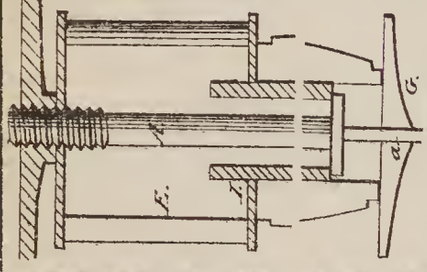


93,909,
JOHN C. RUPP.
RAILWAY RAIL-SPLICE.

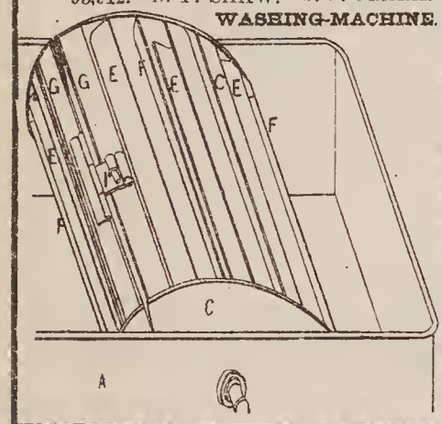


93,910. N. C. RUSSELL.
PROCESS OF TREATING LEATHER SO AS TO RENDER IT SUITABLE FOR THE MANUFACTURE OF GLOVES.

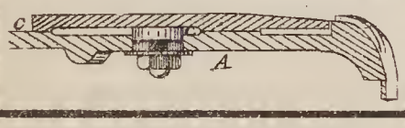
93,911, CHARLES SEARLE.
APPARATUS FOR REMOVING AXLE-BOXES FROM CARRIAGE-HUBS.



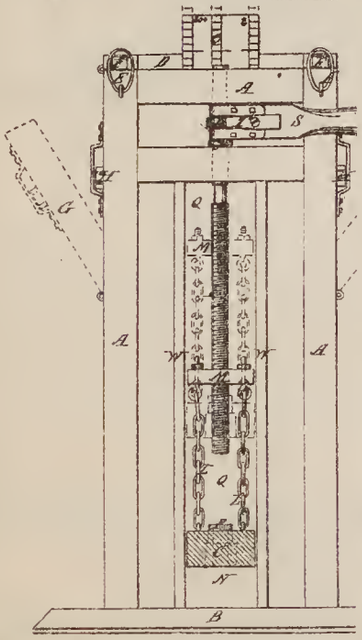
93,912. D. P. SHAW. J. S. CLARK.
WASHING-MACHINE.



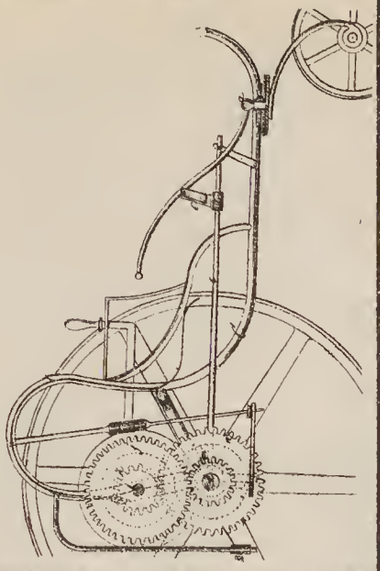
93,913, HENRY SHAW. **GRINDING-MILL.**



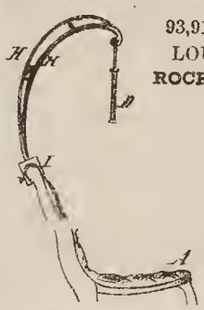
93,914, WILLIAM E. SHEFFIELD.
HAY AND COTTON-PRESSES.



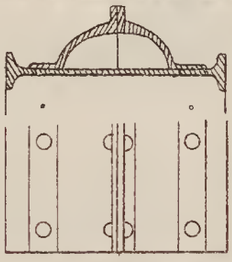
93,915, LOUIS TH. SIMON.
VELOCIPEDES.



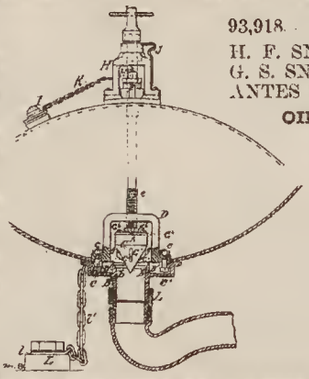
93,916,
LOUIS TH. SIMON.
ROCKING-CHAIR FAN.



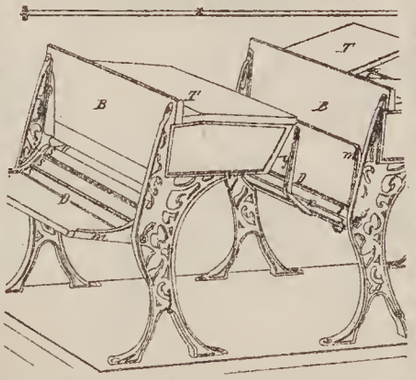
93,917.
C. SHALER SMITH.
CHORD FOR BRIDGES.



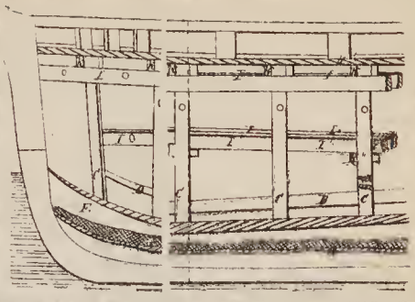
93,918.
H. F. SNYDER.
G. S. SNYDER.
ANTES SNYDER.
OIL-TANKS.



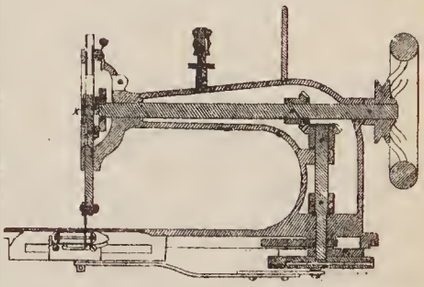
93,919, W. HORACE SOPER.
SCHOOL-DESK AND SEAT.



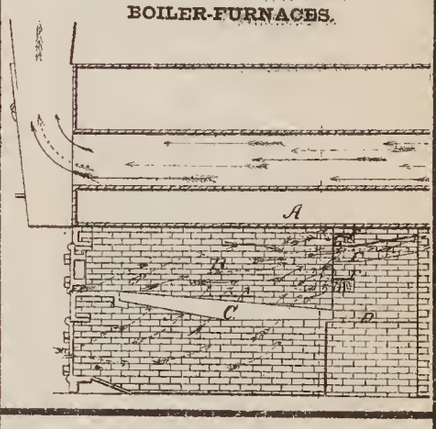
93,920. J. B. STODDARD.
SHIP-BUILDING.



93,921. NESBITT D. STOOPS.
JOHN J. SIBLEY.
SEWING-MACHINE.



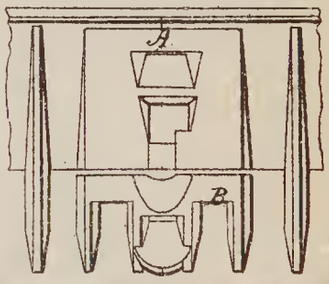
93,922, JOHN A. STRAIGHT.
BOILER-FURNACES.



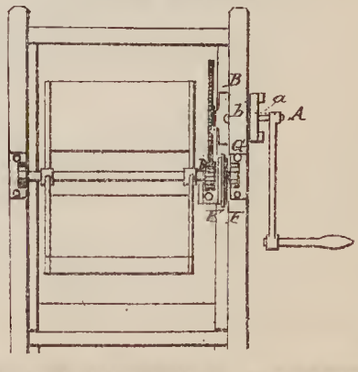
93,923. A. TAGANT. P. SCHÜLER.
"SALT-STONE" FOR SALTING CATTLE AND OTHER ANIMALS.

93,924, A. M. TODD. J. P. TODD.
COMPOSITION-LETTER FOR SIGNS.

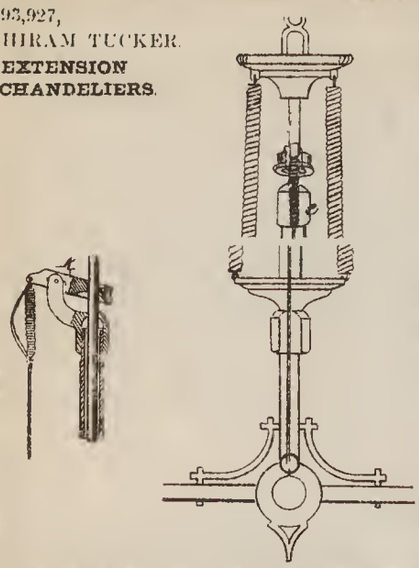
93,925. THOMAS TOMKINSON. **GRATES.**



93,926, JAMES P. TOSTEVIN.
GRAIN-SEPARATORS.

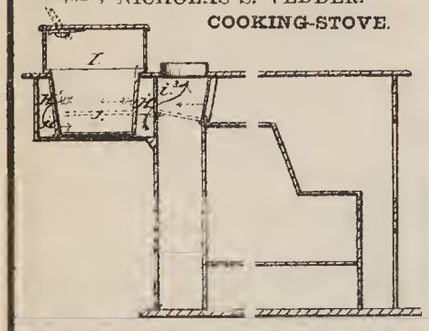


93,927, HIRAM TUCKER. **EXTENSION CHANDELIERS.**

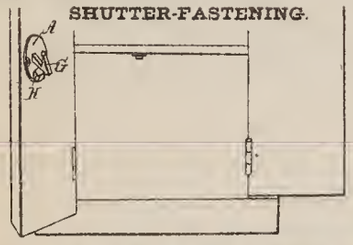


93,928 WM. TUTTLE. **TURNOUT FOR STREET-RAILWAYS.**

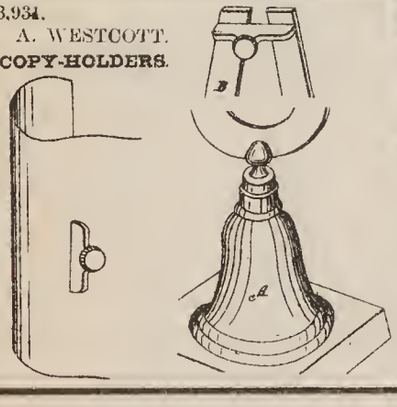
93,929, NICHOLAS S. VEDDER. **COOKING-STOVE.**



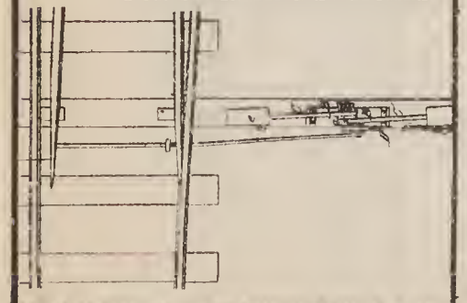
93,930. A. WESTCOTT. **SHUTTER-FASTENING.**



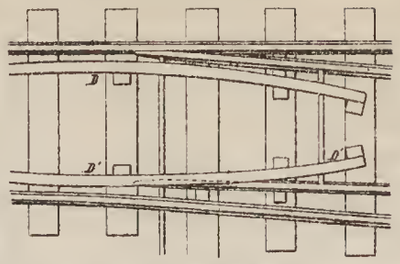
93,931. A. WESTCOTT. **COPY-HOLDERS.**



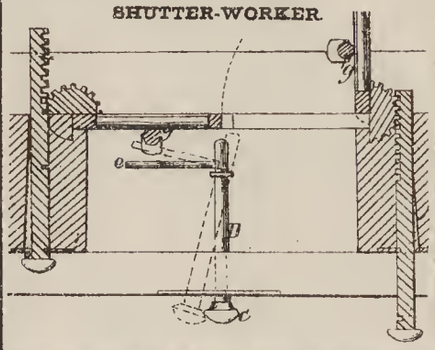
93,932, WM. WHARTON, **MECHANISM FOR OPERATING SWITCHES.**



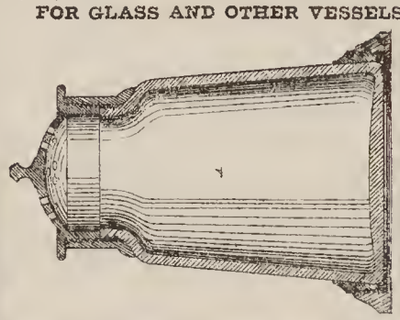
93,933, WM. WHARTON, **RAILROAD-SWITCH.**



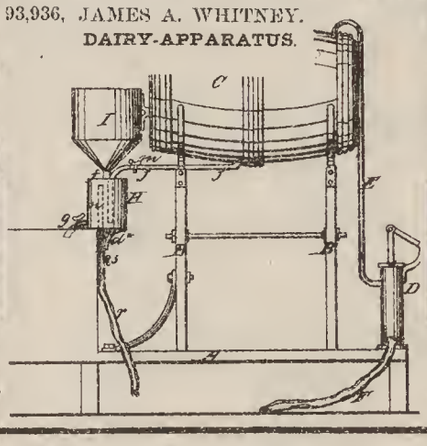
93,934. JACOB W. WHEELER. **SHUTTER-WORKER.**



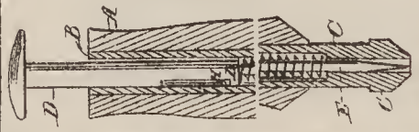
93,935, G. C. WHITE. **METALLIC BASE FOR GLASS AND OTHER VESSELS.**



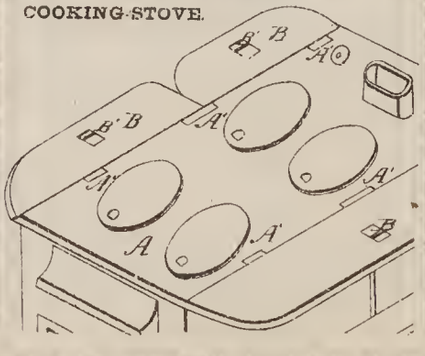
93,936, JAMES A. WHITNEY. **DAIRY-APPARATUS.**



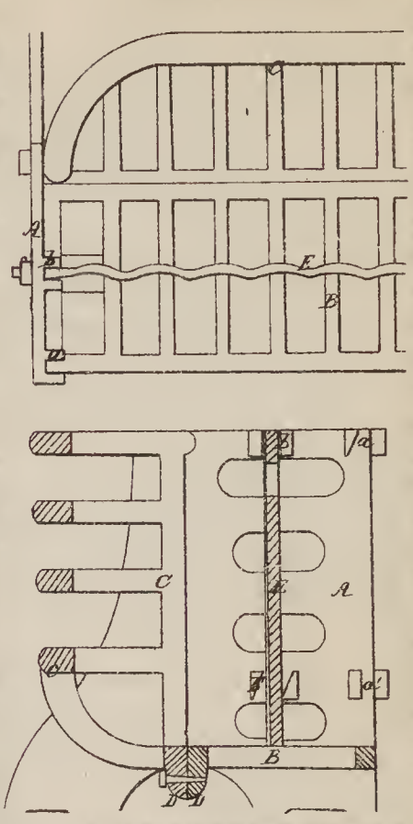
93,937 DANIEL A. WILCOX. **CENTRING-AWL.**



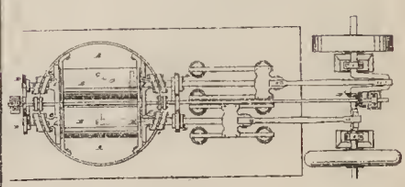
93,938. W. F. WILLIAMS. **COOKING-STOVE.**



93,939, WALTER SAMUEL WITHERS. **FIRE-PLACE GRATE.**

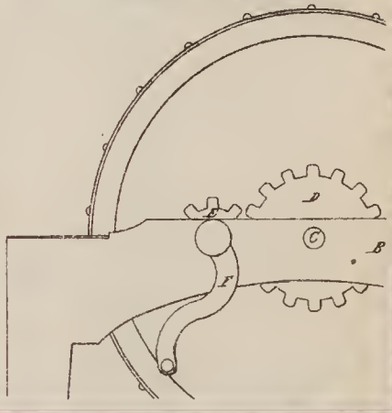


93,940, G. W. WRIGHT. **STEAM-ENGINES**

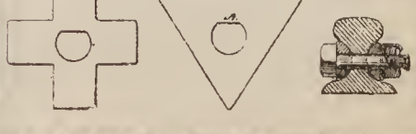


93,941, DAVID YOUNG. **COMPOSITION FOR PLASTERING WALLS.**

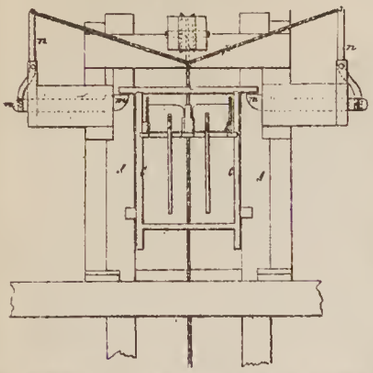
93,942, FRIEDRICH BRINCKMAN. **WASHING-MACHINE.**

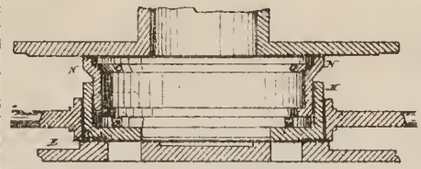


93,943, FREDERICK OAKLEY. **LOCK-NUT.**

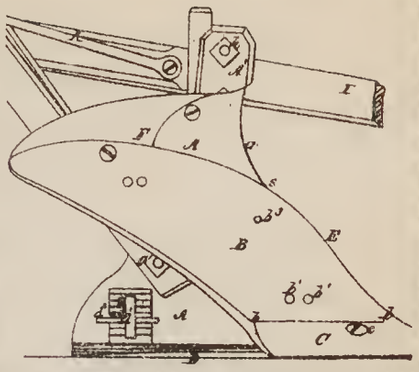


3,596, GEORGE AMBROSE.
EDWARD HAGAN.
HOISTING-APPARATUS.

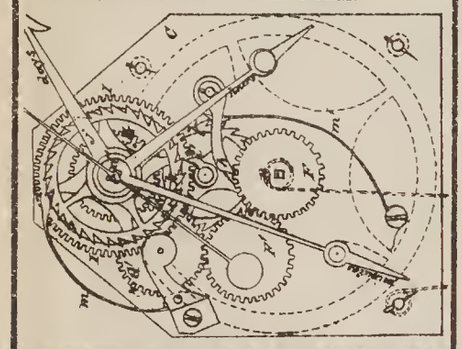




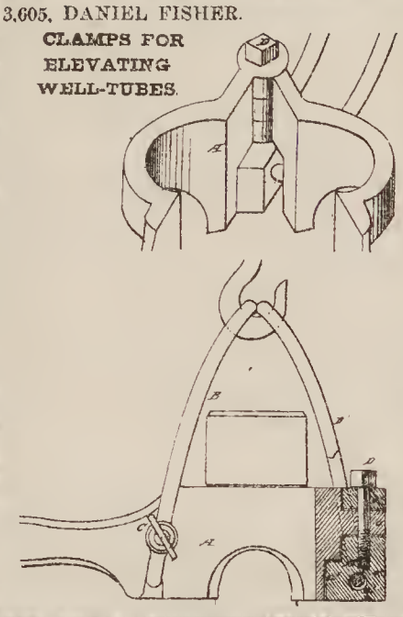
3,604. H. T. CUSHMAN.
COMPOSITION PAPER-POLISHER.



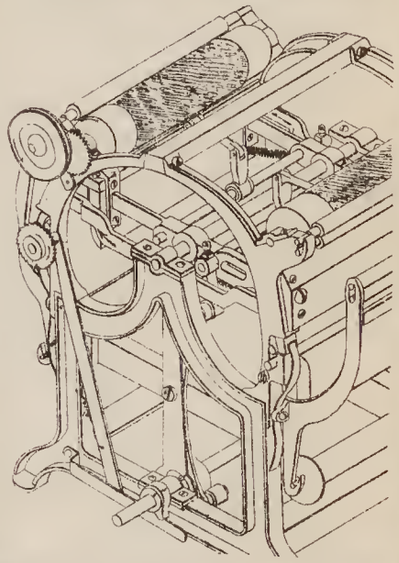
3,606, J. B. MAYER. **CLOCKS.**



3,605, DANIEL FISHER.
CLAMPS FOR ELEVATING WELL-TUBES.



3,610. MILTON D. WHIPPLE.
MACHINE FOR COMBING COTTON.



3,597, D. R. AVERILL,
IMPROVEMENT IN PAINT.

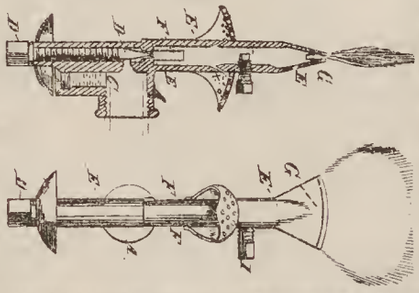
3,598, D. R. AVERILL.
IMPROVEMENT IN PAINT.

3,599, D. R. AVERILL,
IMPROVEMENT IN PAINT.

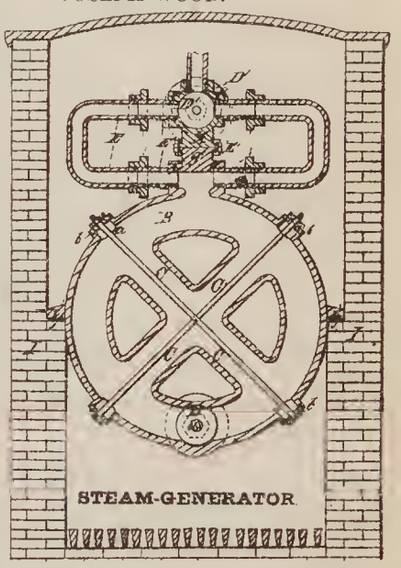
3,600, D. R. AVERILL,
IMPROVEMENT IN PAINT.

3,601, D. R. AVERILL,
MANUFACTURE OF PAINTS.

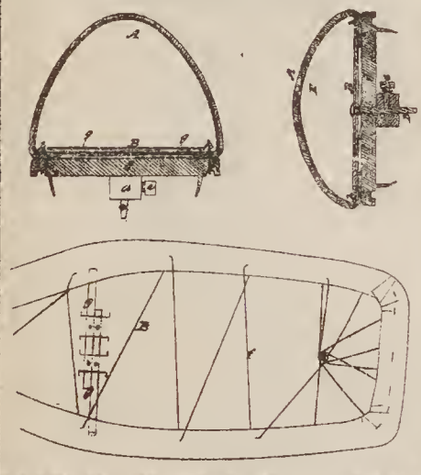
3,607, JAMES D. SMITH.
VAPOR-BURNERS.



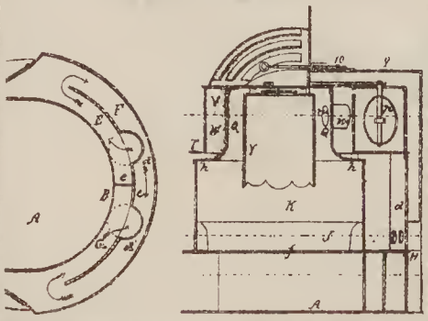
3,611, JAMES P. WOOD.
JOSEPH WOOD.



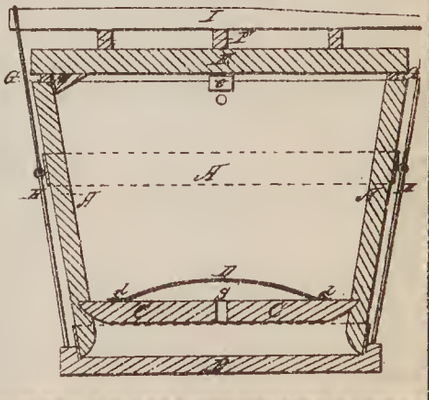
3,602, CHARLES BUFFUM.
IMPROVEMENT IN SHOES.



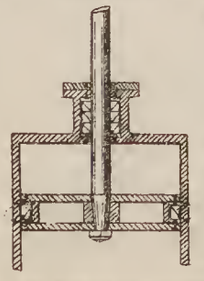
3,608, DAVID STUART.
RICHARD PETERSON.
BASE-BURNING FIRE-PLACE STOVE.



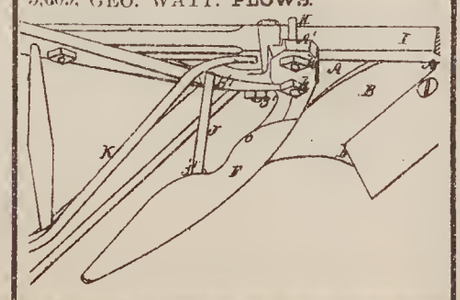
3,612, B. P. VAN MARTER.
DISTILLING ESSENTIAL OILS.



3,603,
ORLO CADY.
WM. W. W. WOOD.
SLIDE-VALVES.



3,609, GEO. WATT. **PLOWS.**



ILLUSTRATIONS OF PATENTS

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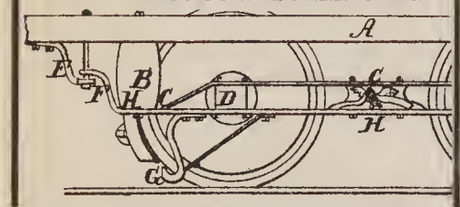
THE UNITED STATES PATENT OFFICE,

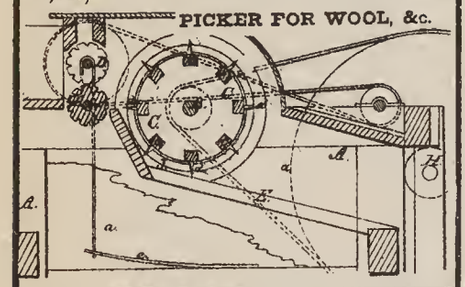
AUG. 24, 1869.

93,944, SMITH D. ARNOLD.
MANUFACTURE OF BRICKS.

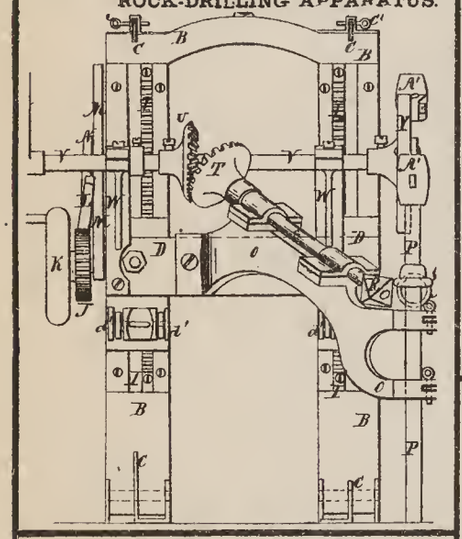
93,945, JOSIAH ASHENFELDER,
TRUCK FOR STREET-CARS.



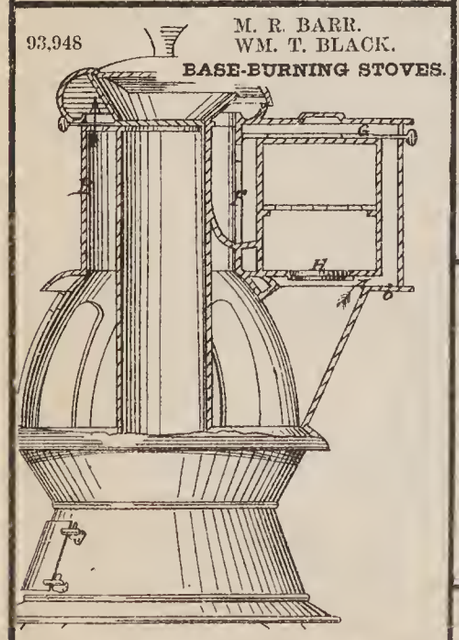
93,946, HARRIS W. AXFORD.
PICKER FOR WOOL, &c.



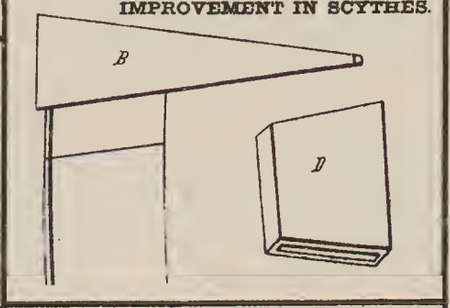
93,947, WILLIAM F. BANKS.
ROCK-DRILLING APPARATUS.



93,948 M. R. BARR.
WM. T. BLACK.
BASE-BURNING STOVES.



93,949, JOHN F. BARTLETT.
IMPROVEMENT IN SCYTHES.



93,950, MYRON H. BECKWORTH.
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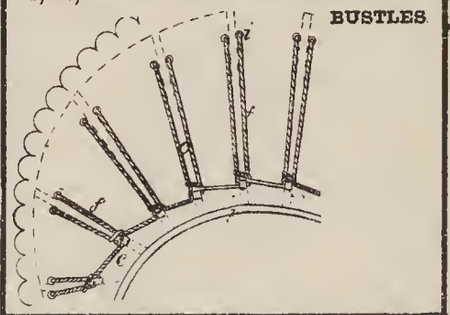
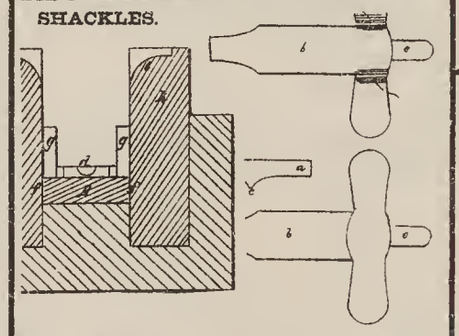
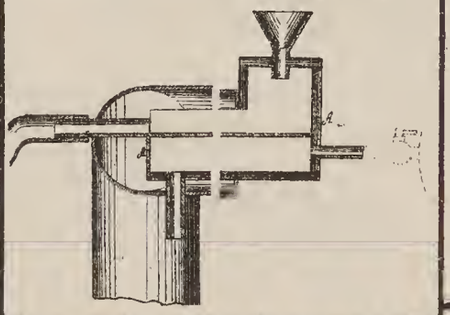


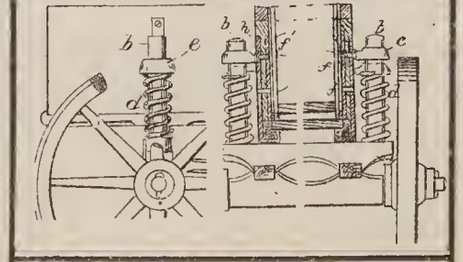
93,951, HENRY M. BEECHER.
DIE FOR FORMING CARRIAGE-SHAFT SHACKLES.



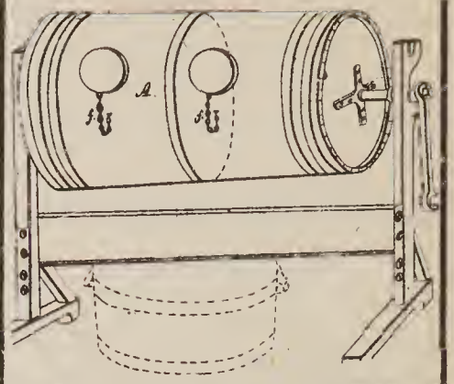
93,952, H. J. BERG.
REMOVING BENZINE FROM HYDROCARBONS.



93,953, NORBORNE BERKELEY.
DEVICE FOR SUPPORTING WAGON-BED



93,954, GEORGE M. BOHLENDER.
WASHING-MACHINE.



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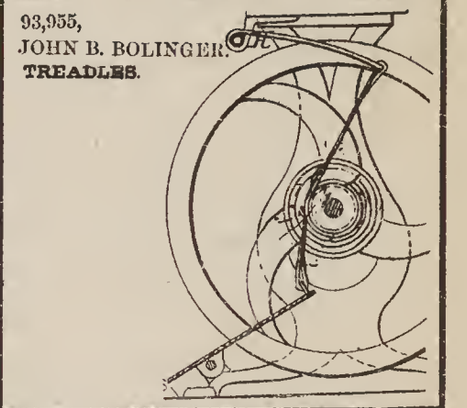
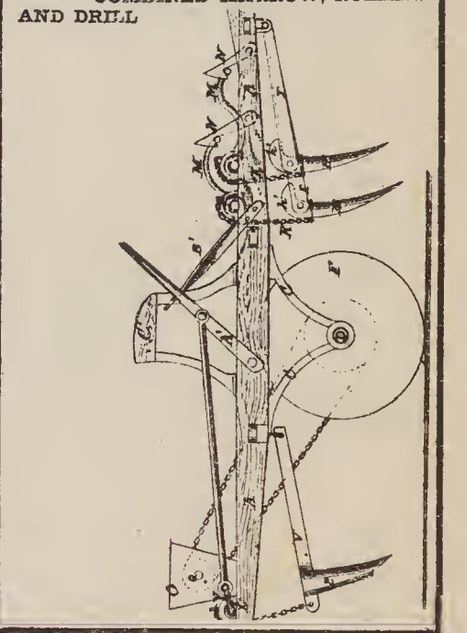
JOHN B. BOLINGER.
TREADLES.



93,956, SAMUEL BRADBURY.
COMBINED HARROW, ROLLER, AND DRILL



93,957, PETER H. BRADLEY.
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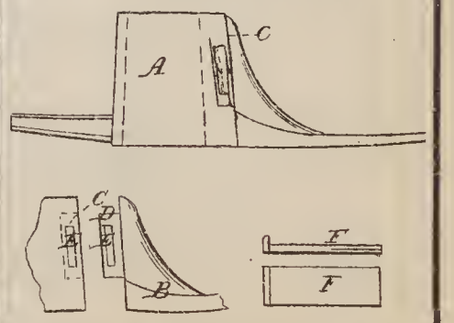
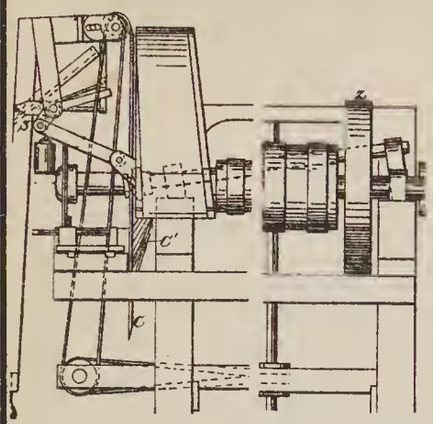
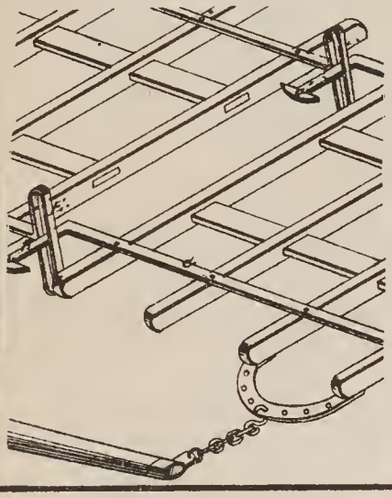


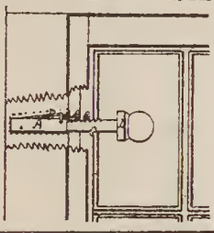
93,958, EDMUND A. BRIMSON.
CORK-CUTTING MACHINE.



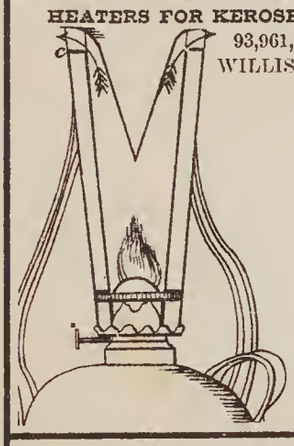
93,959, **HARROW.** THOMAS S. BROWN.
THOMAS A. BROWN.



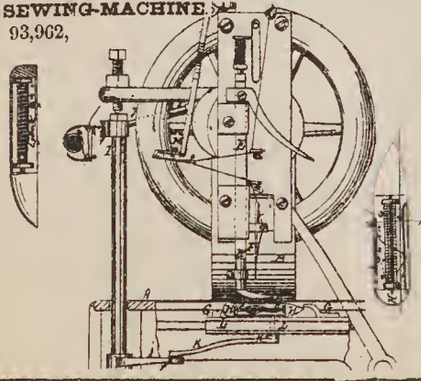
93,960, GEO. F. BROWN.
WINDOW-BEAD FASTENING.



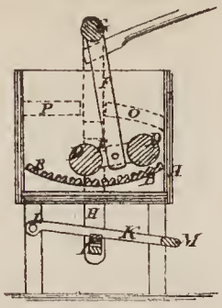
HEATERS FOR KEROSENE-LAMPS.
93,961,
WILLIS L. BROWN.



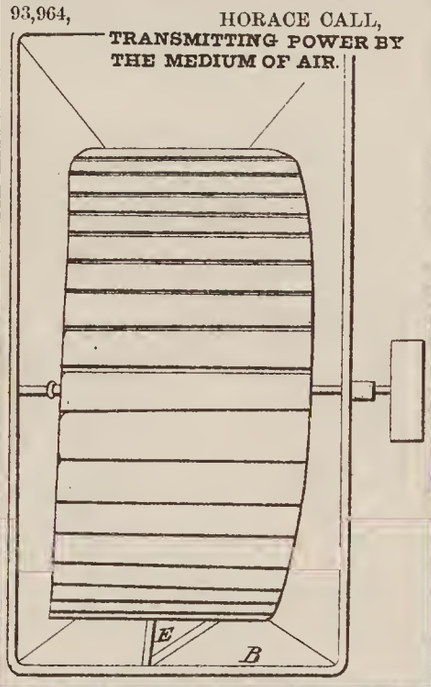
J. H. BUTTERWORTH.
SEWING-MACHINE.
93,962,



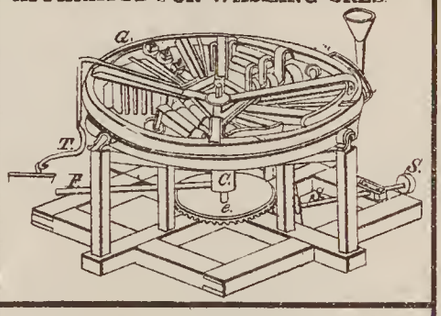
93,963, C. A. CALAWAY.
WASHING-MACHINES.



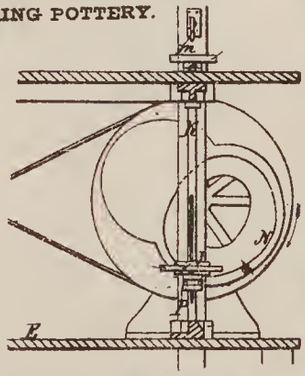
93,964, HORACE CALL,
TRANSMITTING POWER BY THE MEDIUM OF AIR.



93,965, WM. L. CARTER.
APPARATUS FOR WASHING ORES.



ANDREW M. CHEESEMAN. 93,966,
MAKING POTTERY.



93,967, **IMPROVED VELOCIPEDE.**
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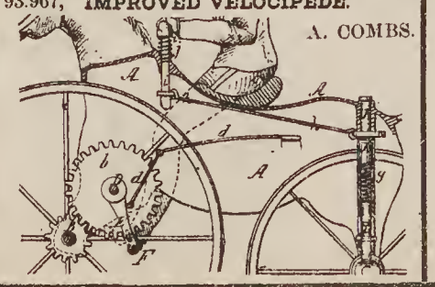

93,968, HOWARD CONNICK.
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93,969,
THOS. M. CORBETT.
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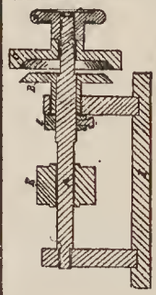
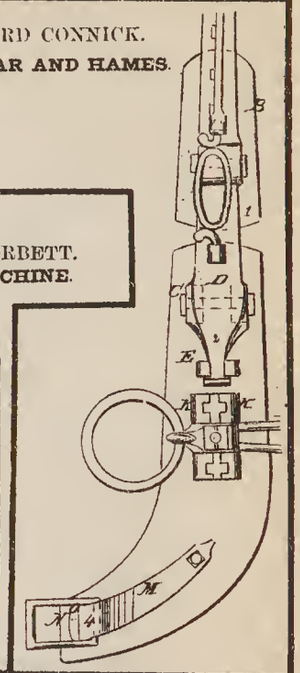
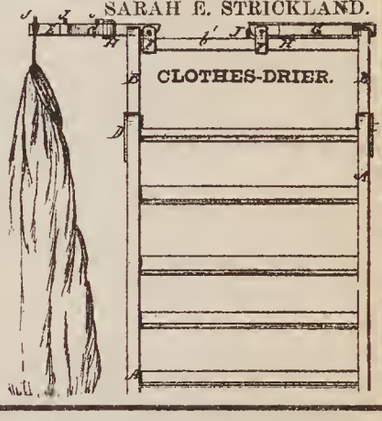
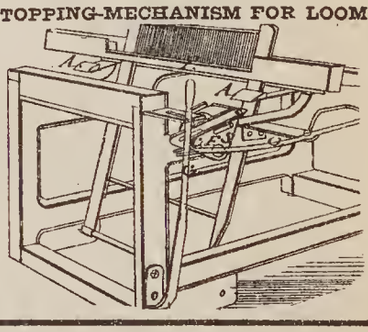




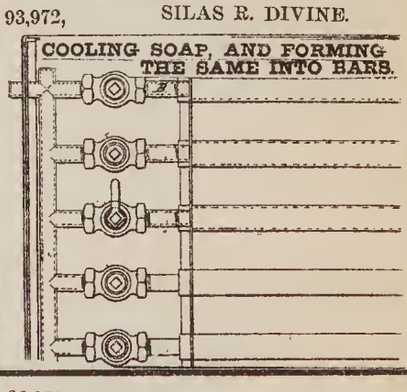
93,970, DARWIN E. CROSBY.
SARAH E. STRICKLAND.
CLOTHES-DRIER.



93,971, G. K. DEARBORN.
STOPPING-MECHANISM FOR LOOMS.



93,972, SILAS R. DIVINE.
COOLING SOAP, AND FORMING THE SAME INTO BARS.



93,973, JACOB DODDER.
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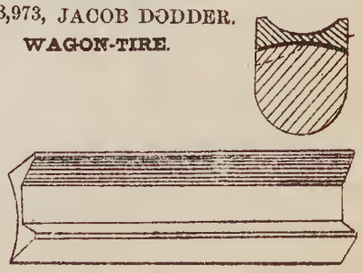

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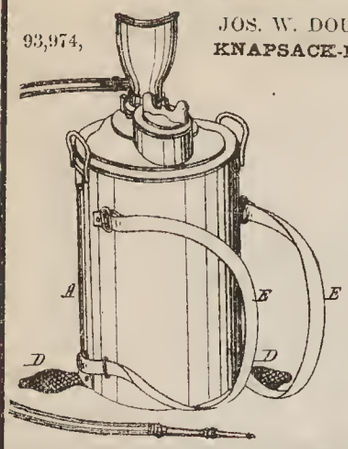
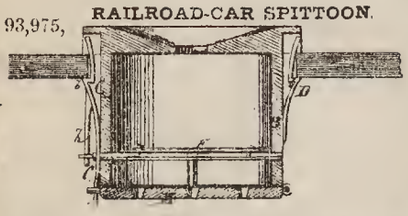
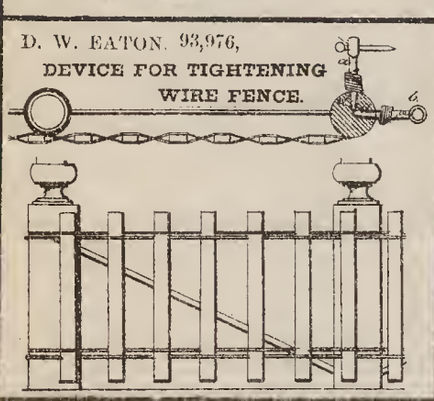


J. S. DU BOIS.
93,975, RAILROAD-CAR SPITTOON.



D. W. EATON. 93,976,
DEVICE FOR TIGHTENING WIRE FENCE.



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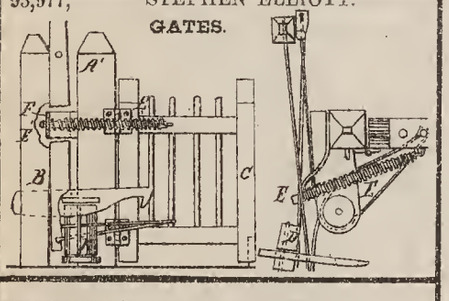
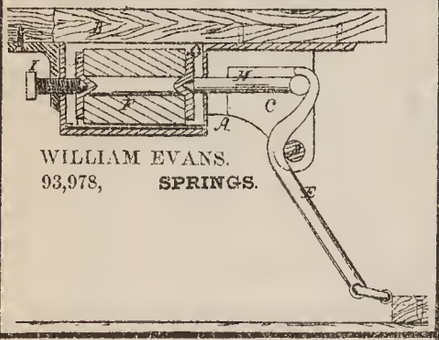
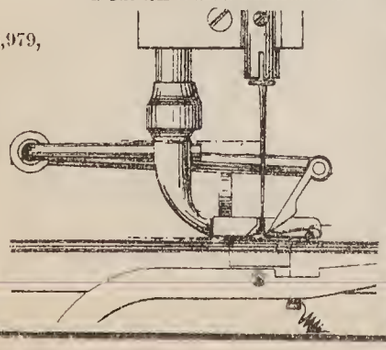


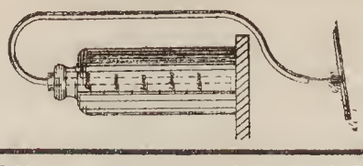


WILLIAM EVANS.
93,978, SPRINGS.

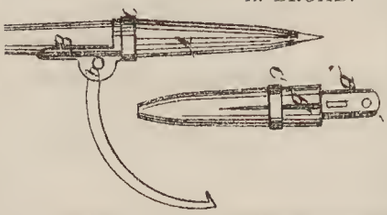
ALFRED EVERISS.
GATHERING-ATTACHMENT FOR SEWING-MACHINES.
93,979,



93,980, B. FINCKE, M. D.
PROCESS OF PREPARING HOMŒOPATHIC MEDICINES.

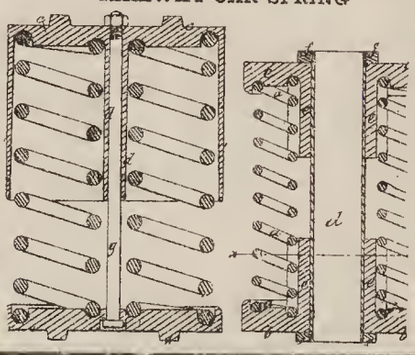


93,981, CANT-HOOKS. O. P. FRANTZ.
E. BROAD.

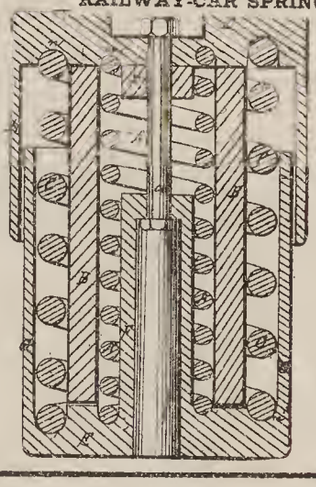


93,982, DR. FRANCIS FRISIANI.
MEDICAL COMPOUND FOR TREATING THE ORGANS OF VOICE.

P. G. GARDINER.
93,983, RAILWAY-CAR SPRING.



P. G. GARDINER.
93,984, RAILWAY-CAR SPRING.



N. F. GILMAN. 93,985,
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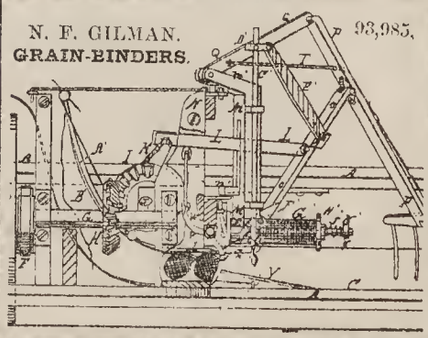

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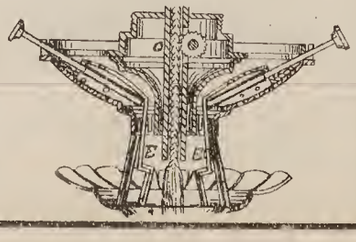
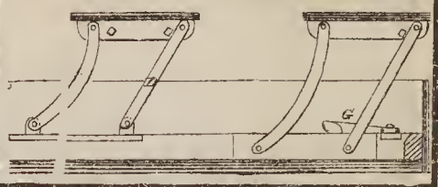
C. D. HYNDMAN.
LAMP-EXTINGUISHERS.

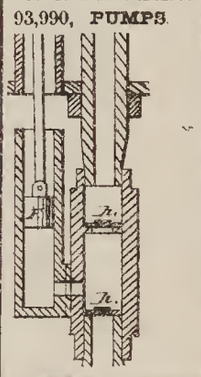


93,987, W. H. GREGG.
WILLIAM BOWE.
ADJUSTABLE CARRIAGE-SEAT.

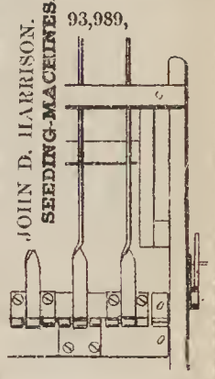


93,988, JNO. F. GRIFFEN.
MANUFACTURE OF ROSIN AND SPIRITS OF TURPENTINE.

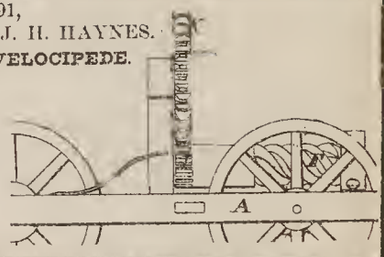
M. C. HAWKINS.
93,990, PUMPS.



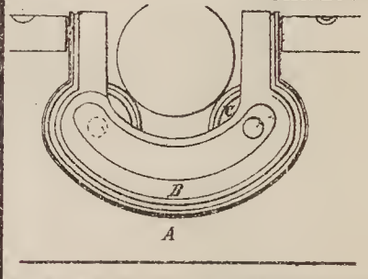
JOHN D. HARRISON.
SEEDING-MACHINES.
93,989,



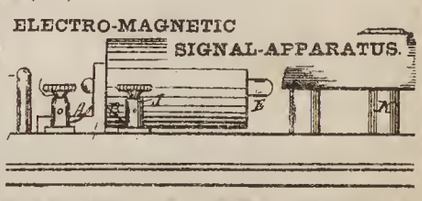
93,991, J. H. HAYNES.
VELOCIPEDE.



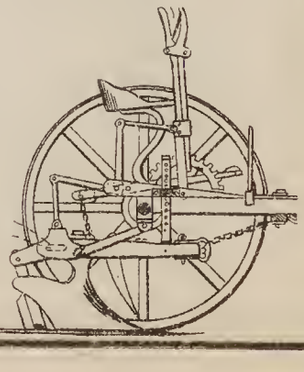
93,992, HENRY HEMPSTEAD.
OAR-LOCKS.



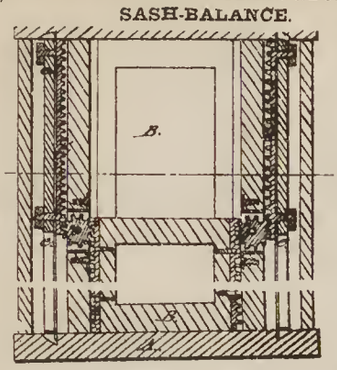
93,993, GEO. B. HICKS.
ELECTRO-MAGNETIC SIGNAL-APPARATUS.



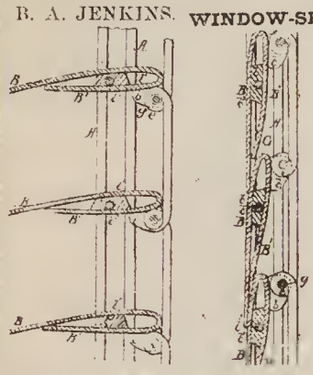
93,994, LEAVITT HUNT. PLOWS.



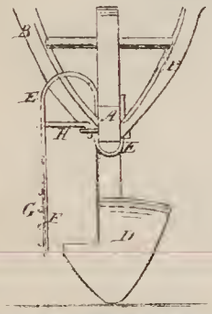
93,995, S. W. HUNTINGTON.
SASH-BALANCE.



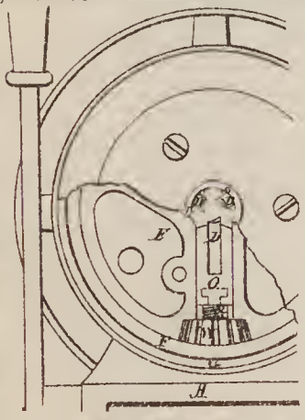
93,996, B. A. JENKINS. **WINDOW-SHUTTER.**



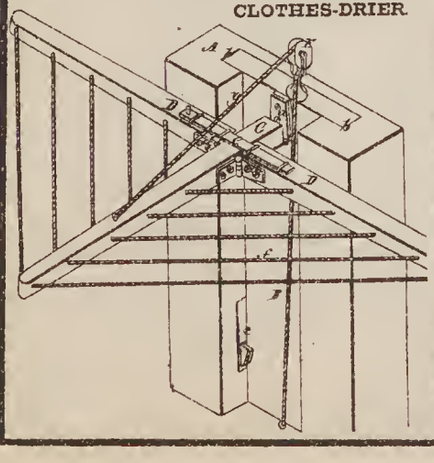
93,997, GREGORY JENNINGS.
SHOVEL-PLOWS.



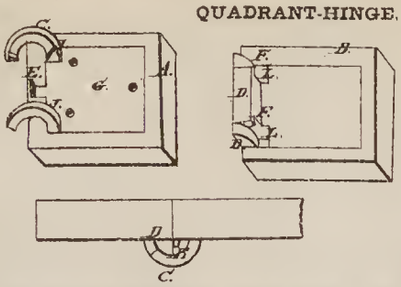
93,998, WM. JOHNSON.
BOLT-THREADING MACHINE.



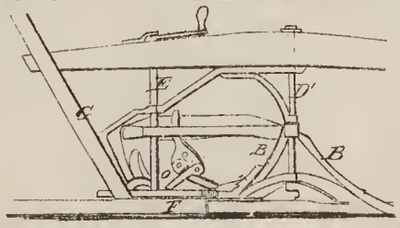
93,999, LUTHER N. JOHNSON.
BENTON SILLOWAY.
CLOTHES-DRIER.



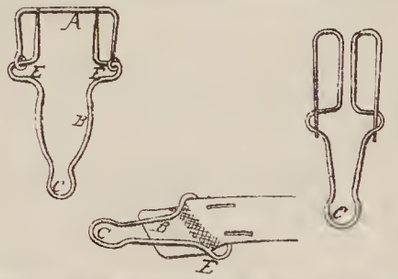
94,000, NATHANIEL JONES.
QUADRANT-HINGE.



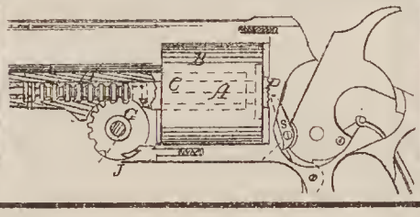
94,001, JOHN W. JONES.
REVERSIBLE PLOW.



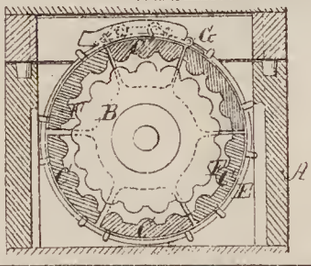
94,002, LOUIS A. KETTLE.
BUTTON-HOLE AND BUCKLE.



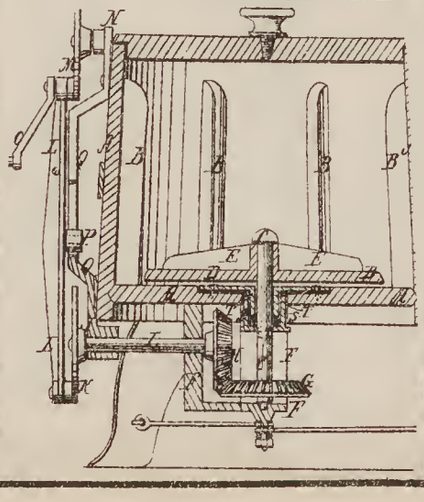
94,003, CHARLES A. KING.
REVOLVING FIRE-ARMS.



94,004, J. B. KING. **WASHING-MACHINE.**

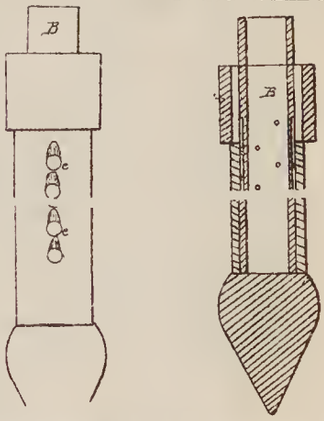


94,005, ALEXANDER KING.
GEORGE H. KING.
WASHING-MACHINE.

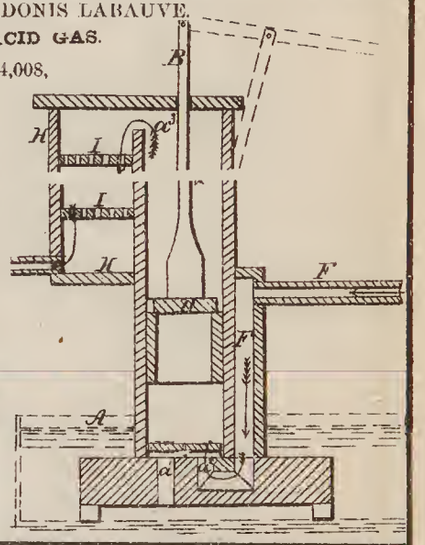


94,006, JOHN W. KING.
CURTAIN-FIXTURE.

94,007, D. R. KNIGHT.
DRIVING WELL-TUBES.

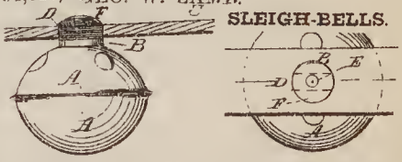


ADONIS LABAUVE.
ACID GAS.
94,008,

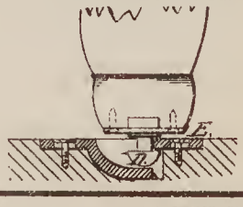


94,009, JACOB LAGOWITZ.
WOODEN TRUNKS.

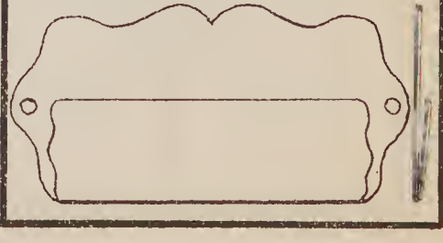
94,010, GEO. W. LAMB.
SLEIGH-BELLS.



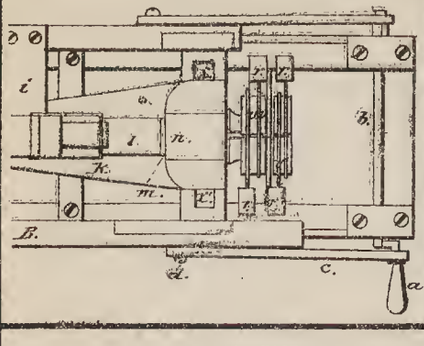
94,011, JOHN M. LEMON.
FLOOR-CATCH FOR TABLE-LEGS.



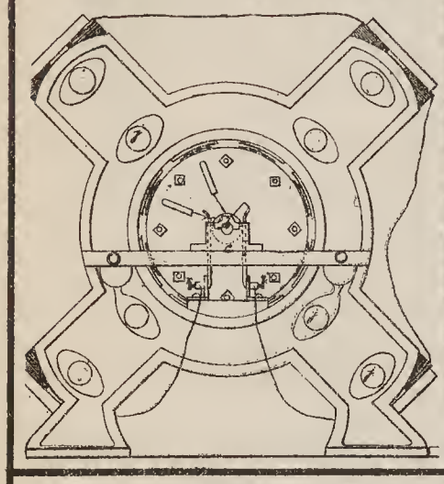
94,012, GEO. W. ROSS LEWIN.
DEVICE FOR FOLDING LETTERS, &c.



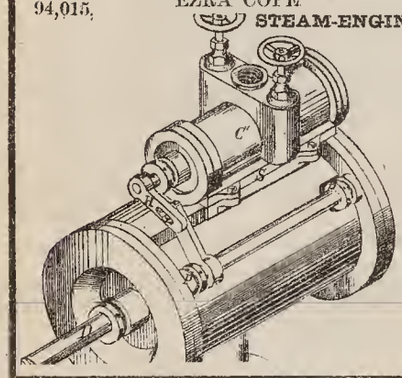
94,013, T. S. LEWIS.
MACHINE FOR REMOVING GREEN CORN FROM THE COB.



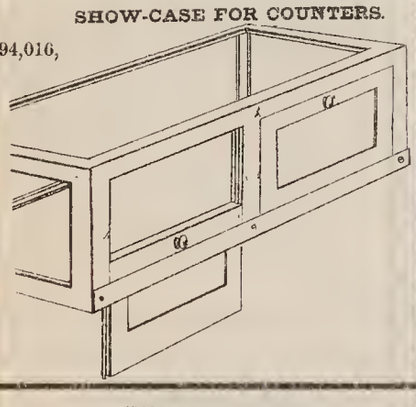
D. LONTIN.
94,014, CH. D'IVERNOIS.
MAGNETO-ELECTRIC MACHINES.



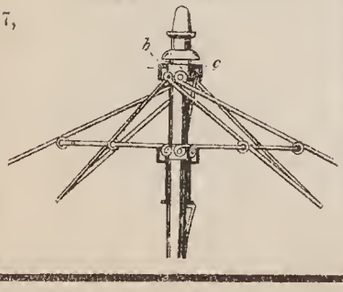
JAMES R. MAXWELL.
94,015, EZRA COPE
STEAM-ENGINES.



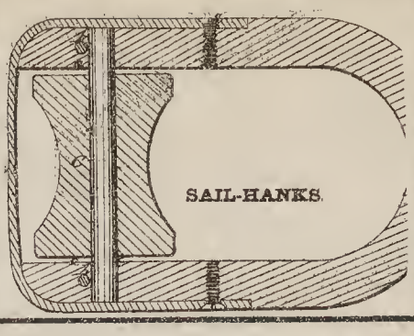
NOAH MAYO.
EBEN S. MORSE.
SHOW-CASE FOR COUNTERS.
94,016,



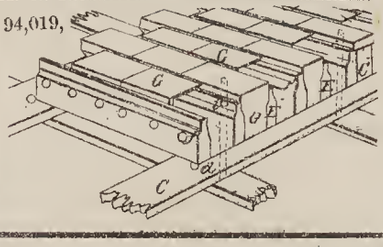
THOMAS McCREARY.
UMBRELLAS.
94,017,



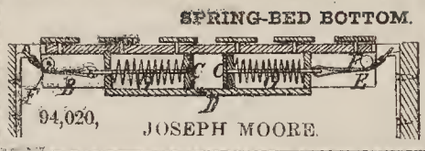
94,018, WILLIAM McKAY.



A. R. McNAIR. **WOOD PAVEMENT.**
94,019,

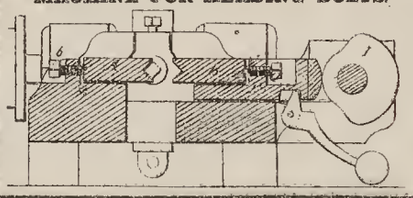


SPRING-BED BOTTOM.

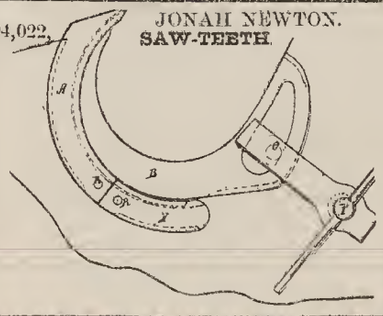


94,020, JOSEPH MOORE.

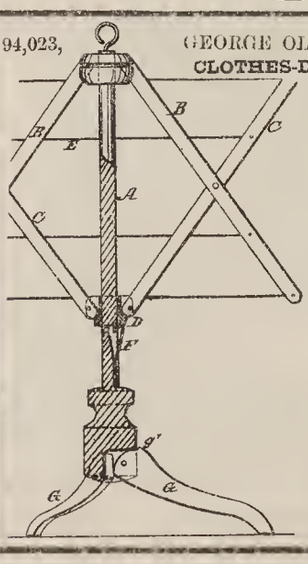
94,021, D. G. MORRIS.
MACHINE FOR HEADING BOLTS.



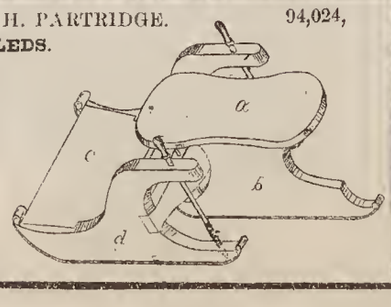
94,022, JONAH NEWTON.
SAW-TEETH.



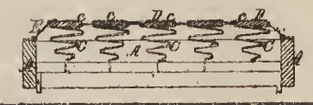
94,023, GEORGE OLDHAM.
CLOTHES-DRIER.



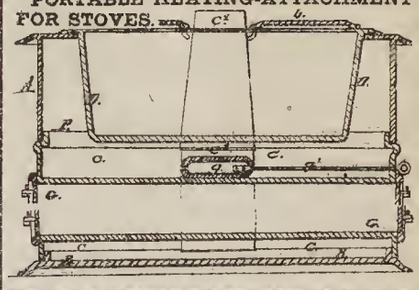
S. H. PARTRIDGE. 94,024,
SLEDS.



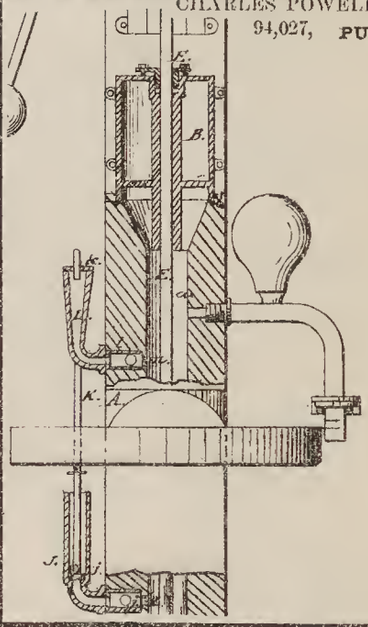
94,025, EDWARD PERRY.
SPRING-BED BOTTOM.



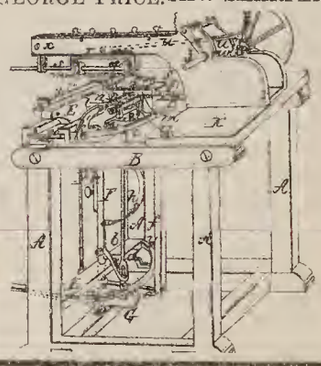
94,026, JOHN S. PERRY.
PORTABLE HEATING-ATTACHMENT FOR STOVES.



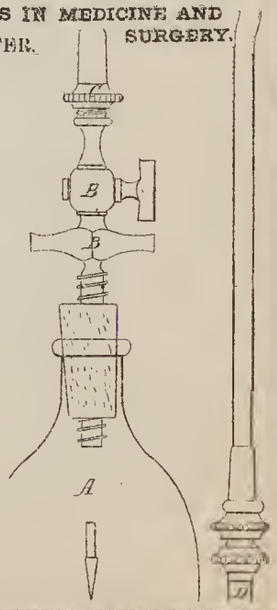
CHARLES POWELL.
94,027, **PUMPS.**



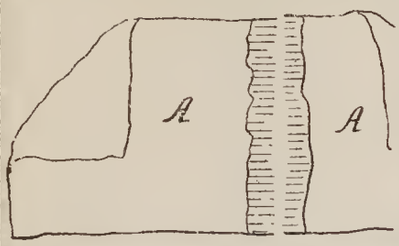
GEORGE PRICE. **SAW-SHARPENERS.**
94,028,



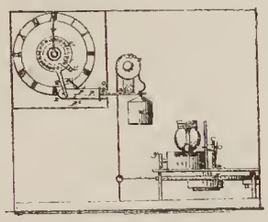
APPLICATION OF CARBONATED WATERS IN MEDICINE AND SURGERY.
A. D. PUFFER.
94,029,



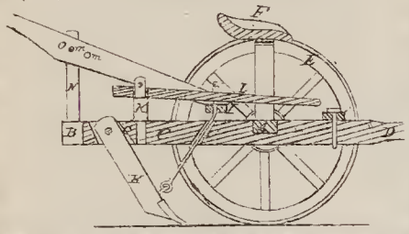
94,030, JAMES RUSTEIN.
FABRIC FOR THE MANUFACTURE OF COLLARS, CUFFS, &c.



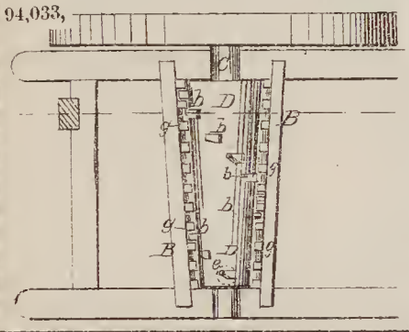
94,031, LAMP-LIGHTERS.
JOHN RIGBY.



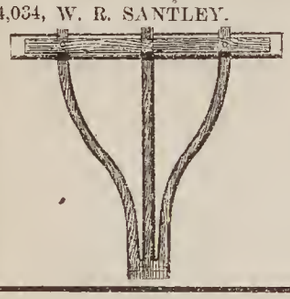
JOHN ROBERTS.
94,032, CORN-ROW MARKERS.



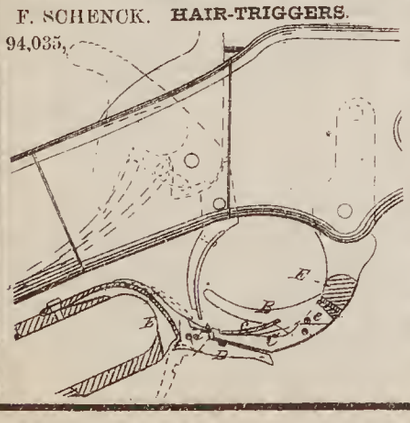
D. ROGERS. BUTTER-MACHINE.
94,033,



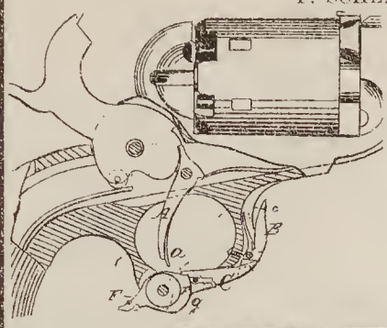
WAGON-REACH AND HOUND
94,034, W. R. SANTLEY.



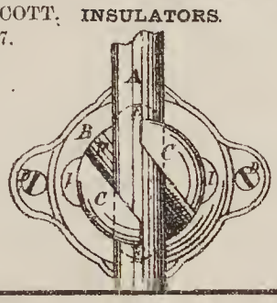
F. SCHENCK. HAIR-TRIGGERS.
94,035,



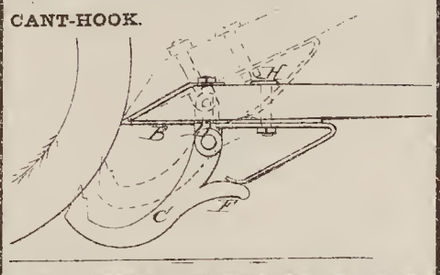
94,036. HAIR-TRIGGERS.
F. SCHENCK.



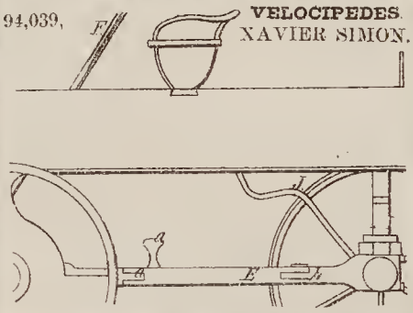
F. SCOTT. INSULATORS.
94,037.



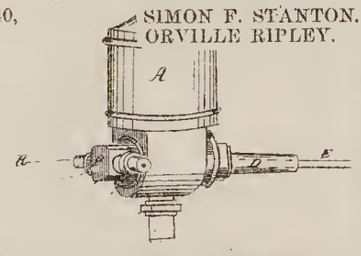
94,038, PETER SCHULTS.
CANT-HOOK.



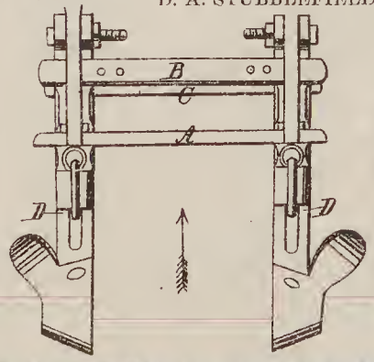
94,039, VELOCIPEDES.
XAVIER SIMON.



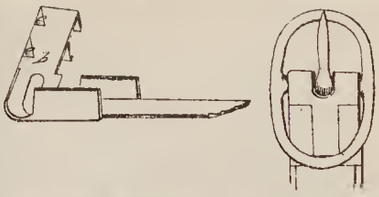
STEAM-CYLINDER OILER.
94,040, SIMON F. STANTON.
ORVILLE RIPLEY.



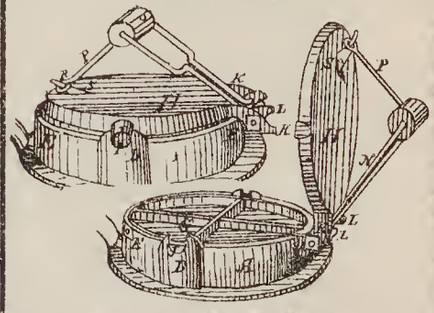
94,041, PLOWS. W. H. LUSE.
D. A. STUBBLEFIELD.



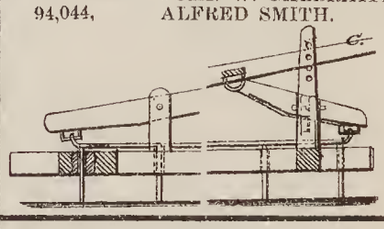
94,042, STEPHEN G. STURGES.
WILLIAM E. STURGES.
CLIPS FOR ATTACHING BUCKLES.



94,043, CORNELIUS SWARTWOUT.
WAFFLE-IRON.

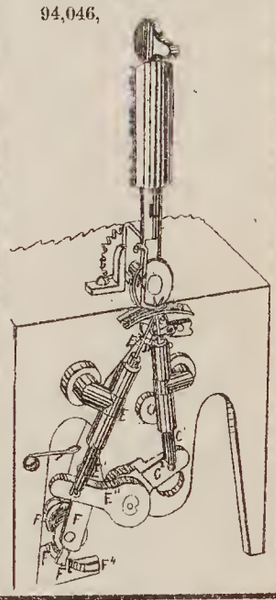


HARROWS. FENTON Y. TAVENNER.
94,044, JOHN W. GALBRAITH.
ALFRED SMITH.



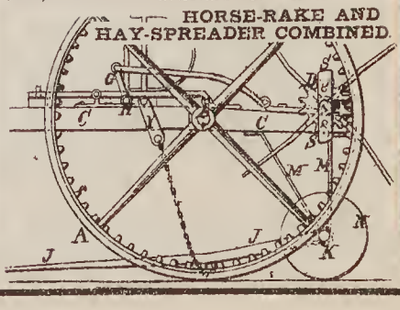
94,045, N. O. J. TISDALE.
MACHINE FOR CHARGING GAS-RETORTS.

SIDNEY S. TURNER.
SEWING-MACHINE.
94,046,

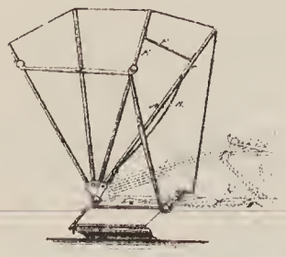


94,047, S. F. VAN CHOATE.
BREECH-LOADING FIRE-ARMS.

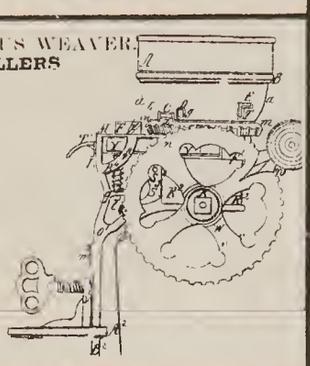
94,048, HENRY C. VARNUM.
HORSE-RAKE AND HAY-SPREADER COMBINED.



94,049. JACOB STILENGER WAYNE.
BUGGY-TOPS.

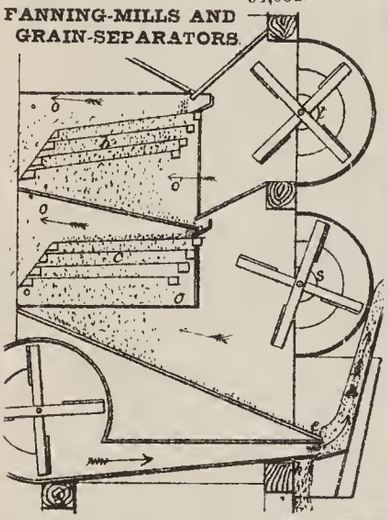


THEOPHILUS WEAVER.
CORN-SHELLERS
94,050.

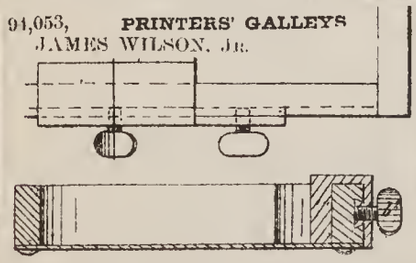


M. V. B. WHITE. 94,051,
SASH-STOP.

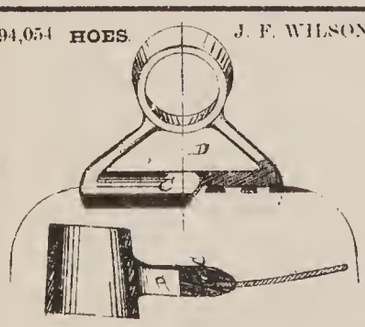
DARIUS WILCOX. 94,052.
FANNING-MILLS AND GRAIN-SEPARATORS.



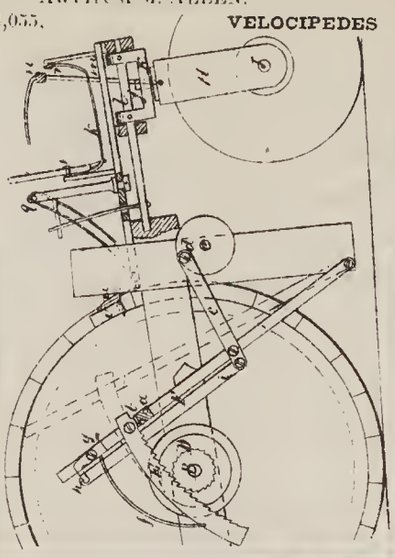
94,053, **PRINTERS' GALLEYS**
JAMES WILSON, Jr.



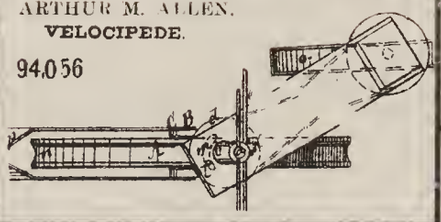
94,054 **HOES.** J. F. WILSON.



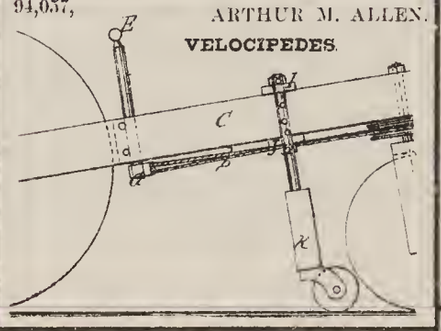
ARTHUR M. ALLEN.
94,055. **VELOCIPEDES**



ARTHUR M. ALLEN.
VELOCIPEDE.
94,056

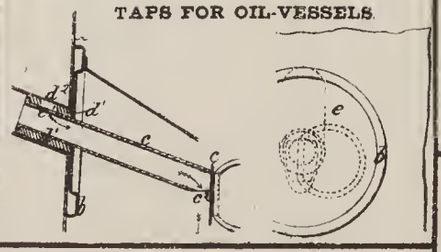


94,057, ARTHUR M. ALLEN.
VELOCIPEDES.

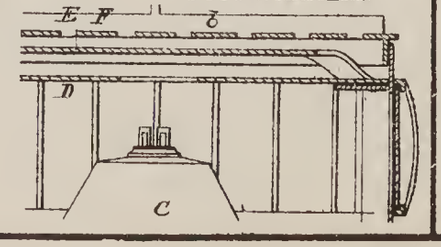


94,058. A. M. ALLEN.
VELOCIPEDE.

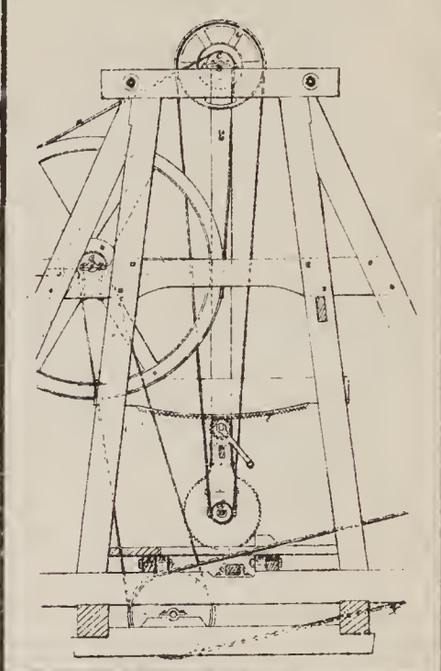
94,059. MATT. ANDREW.
TAPS FOR OIL-VESSELS.



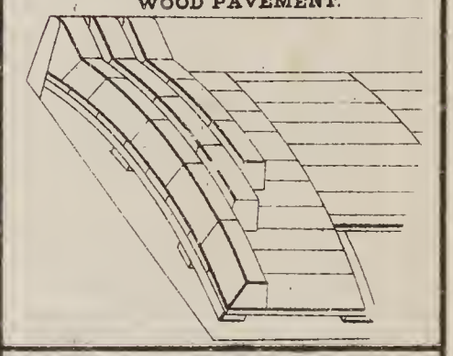
94,060, DINSMORE AUSTIN.
FOOT-WARMERS.



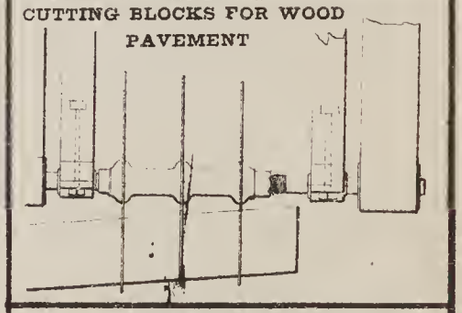
94,061, WM. W. BALLARD.
SAWING PAVING-BLOCKS.



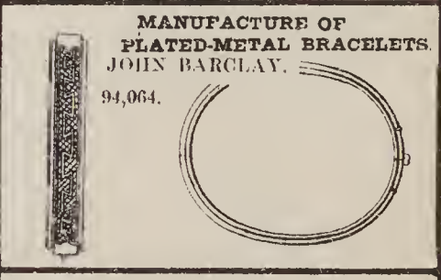
94,062, W. W. BALLARD.
BUREN B. WADDELL.
WOOD PAVEMENT.



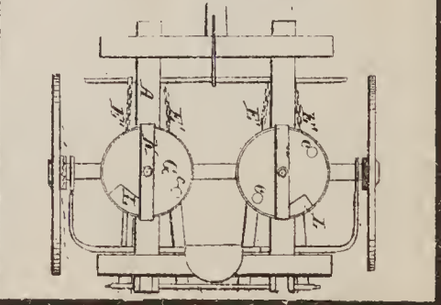
WM. W. BALLARD. 94,063,
BUREN B. WADDELL.
CUTTING BLOCKS FOR WOOD PAVEMENT



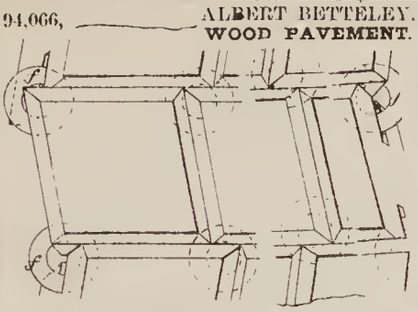
MANUFACTURE OF PLATED-METAL BRACELETS.
JOHN BARCLAY.
94,064.



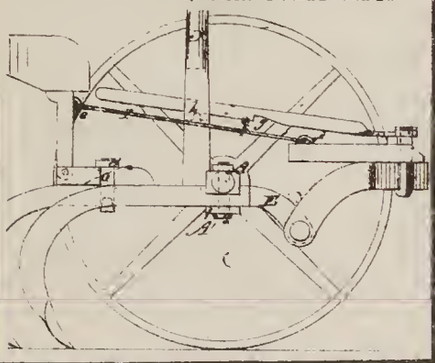
94,065, LORENZO BARTLETT.
COMBINED SEEDING-MACHINE AND CULTIVATOR.



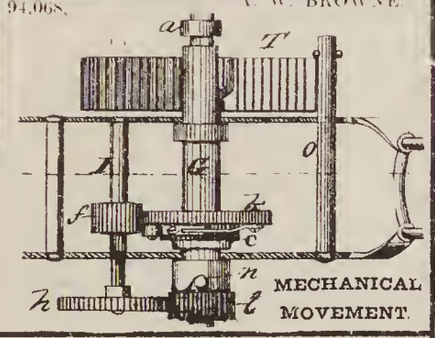
94,066, ALBERT BETTELEY. **WOOD PAVEMENT.**



94,067. A. C. BRINSER. **CULTIVATORS**

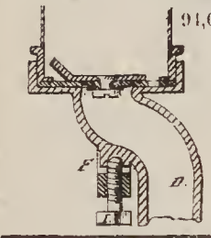


94,068, A. W. BROWNE.

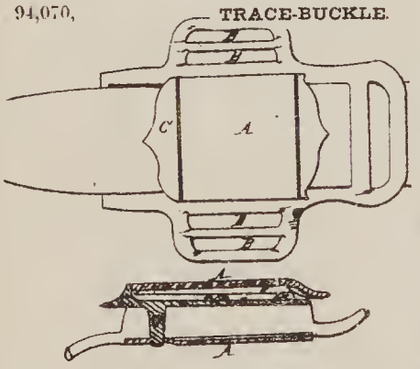


MECHANICAL MOVEMENT.

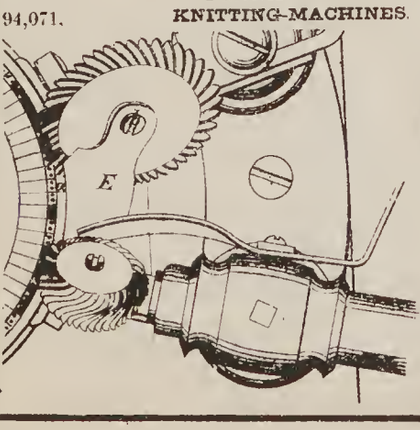
94,069 J. R. BROWN. **PIPE-COUPLING.**



94,070, J. H. H. BUELL. **TRACE-BUCKLE.**



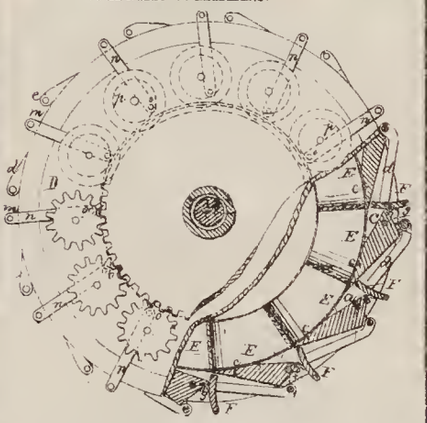
94,071, FRANK BURNS. **KNITTING-MACHINES.**



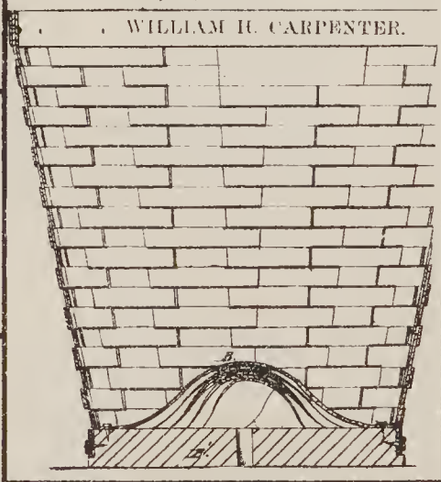
94,072, NELSON BURR. **GRINDING-MILLS.**

94,073, **MANUFACTURE OF SOAP.** W. T. BUSH.

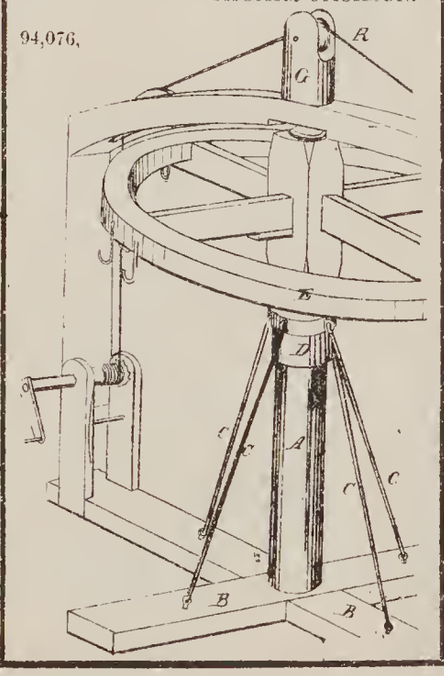
94,074, JOSIAH BUZBY. **WATER-WHEELS.**



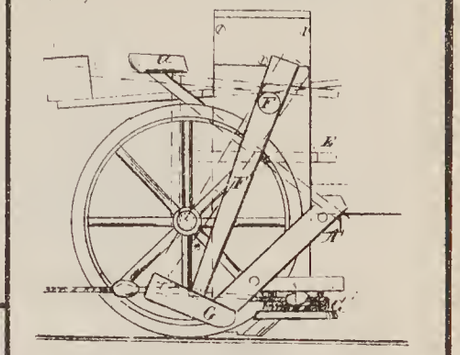
BASKETS. 94,075, WILLIAM H. CARPENTER.



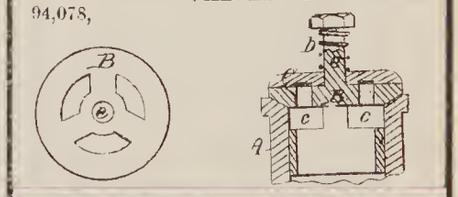
HOG-ELEVATOR. A. J. CHAMBERS. THOMAS JACKSON. 94,076,



J. BURCHARD CHAPMAN. **CORN-PLANTERS** 94,077,



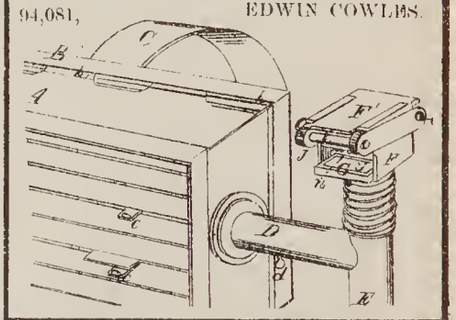
JAMES CLAYTON. **VALVES FOR PUMPS.** 94,078,



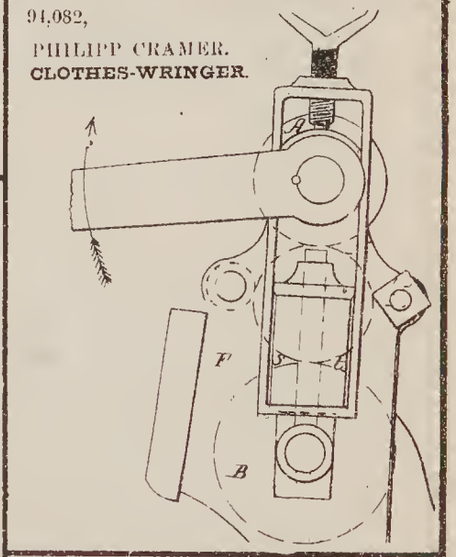
94,079, CHAS. L. COOMBS. **GUMMING POSTAGE AND REVENUE-STAMPS.**

94,080, CHARLES L. COOMBS. **MATTER FOR VARIOUS USES IN THE ARTS.**

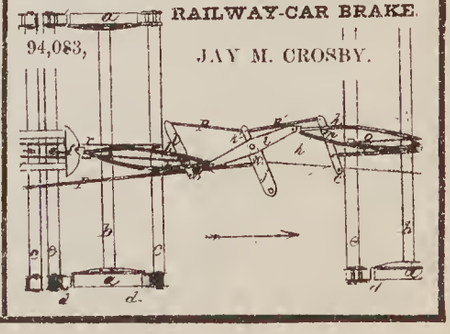
RAILROAD-CONDUCTORS' TICKET-BOX AND FARE-DETECTOR. 94,081, EDWIN COWLES.



94,082, PHILIPP CRAMER. **CLOTHES-WRINGER.**

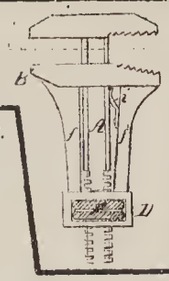


RAILWAY-CAR BRAKE. 94,083, JAY M. CROSBY.

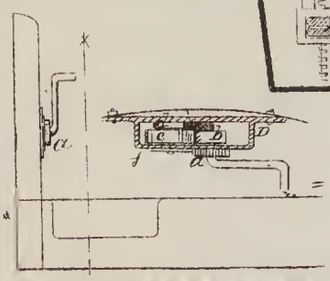


94,084. W. B. DAVIS.
COVERING STEAM-BOILERS, PIPES, AND OTHER ARTICLES

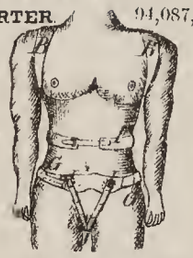
94,085, A. B. DAVIS.
DUPLEX WRENCH.



MARINUS DE GRAFF.
94,086, STREET-CARS.



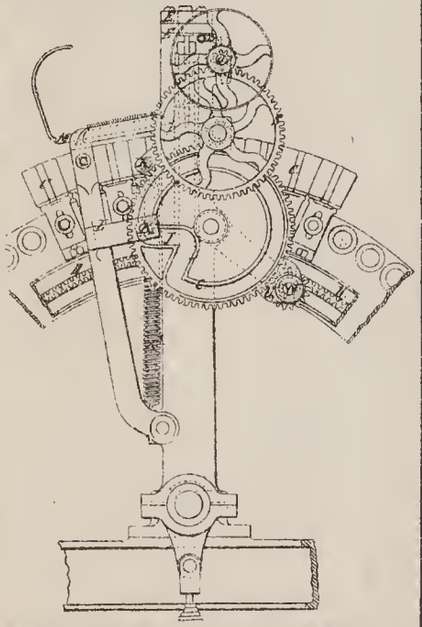
COMBINED SUPPORTER.
SOLON DIKE.



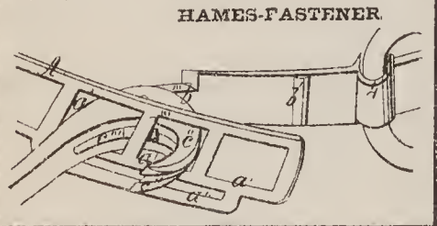
94,087,

94,088.
CHAS. R. DOANE.
LABEL-FASTENER

94,089, BEN. DOBSON.
WILLIAM SLATER.
LAFTING FLATS IN SELF-STRIPPING CARDING-ENGINES

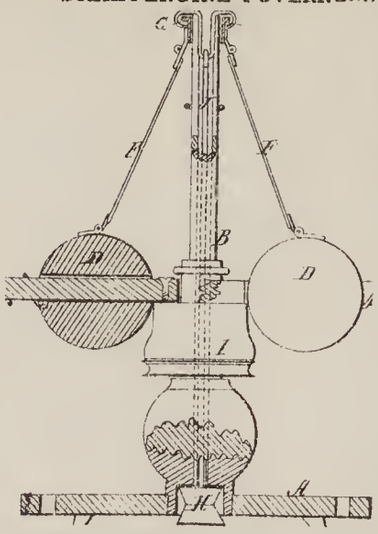


94,090, ALFRED M. DORMAN.
HAMES-FASTENER.

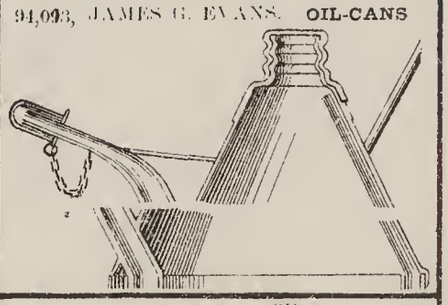


94,092, JOHN H. ELWARD.
WASH-BOILER.

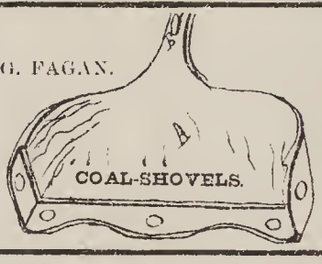
94,091, C. DUCLOS.
STEAM-ENGINE GOVERNORS



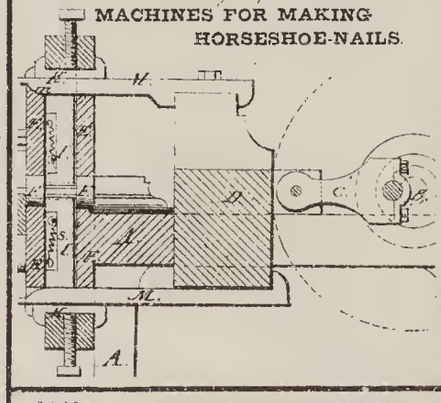
94,093, JAMES G. EVANS. OIL-CANS



94,094,
MICHEL G. FAGAN.



D. J. FARMER. 94,095,
MACHINES FOR MAKING HORSESHOE-NAILS.



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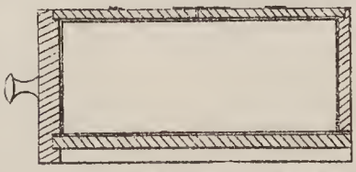
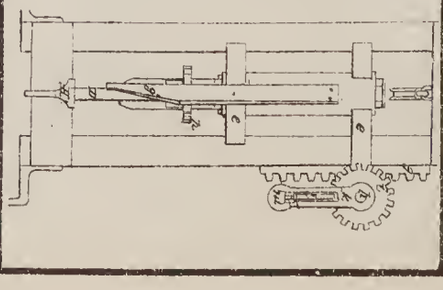
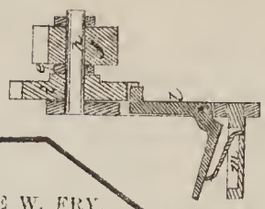
BUREAU-DRAWER.



94,097, JOSEPH P. FRIZELL.
STONE-DRILLING MACHINE.





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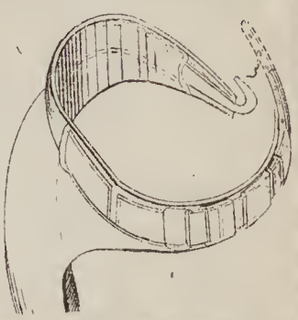
GEORGE W. FRY.
INTERFERING-PAD.



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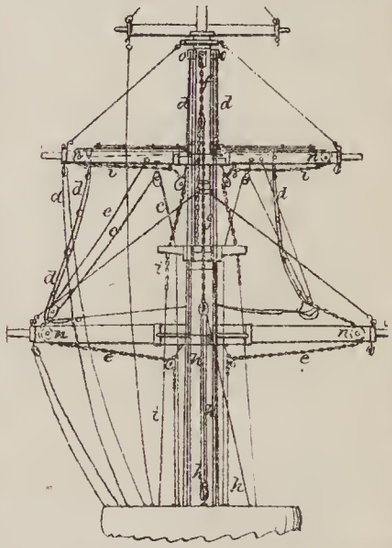
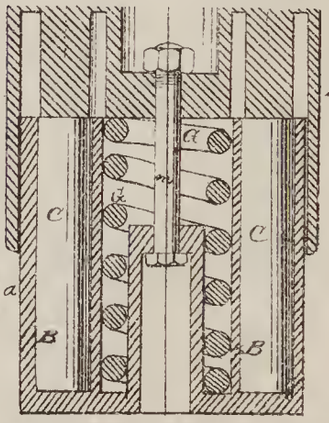
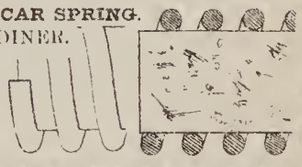
APPARATUS FOR FURLING SAILS.



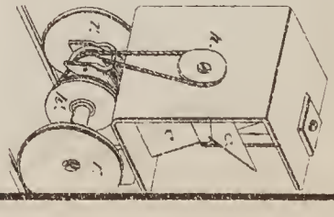
94,100, P. G. GARDINER.
CAR-SPRING.



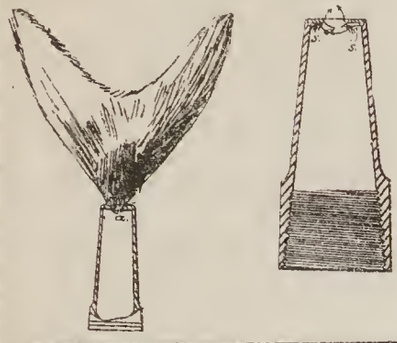
RAILWAY-CAR SPRING.
P. G. GARDINER.
94,101,



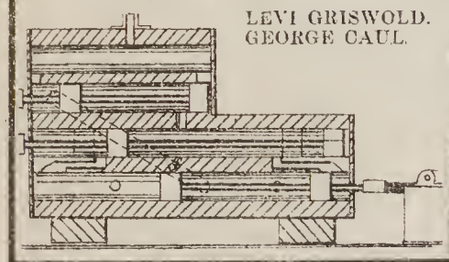
94,102, CHS. L. GARFIELD.
SNOW-PLOW FOR RAILWAYS.



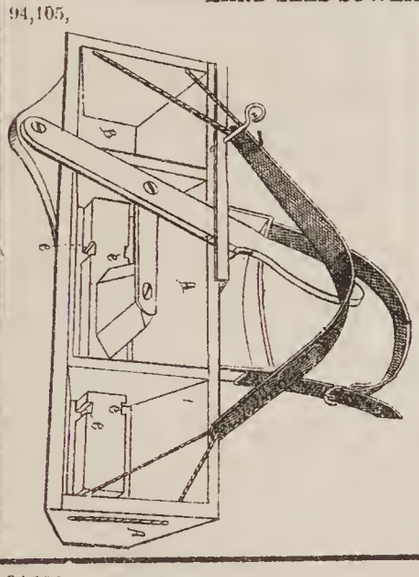
94,103, **GAS-BURNERS** ROBERT GILL.



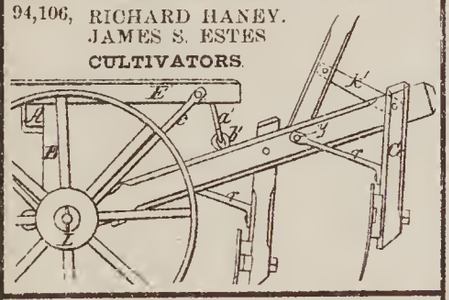
94,104, **STEAM-ENGINE.** LEVI GRISWOLD. GEORGE CAUL.



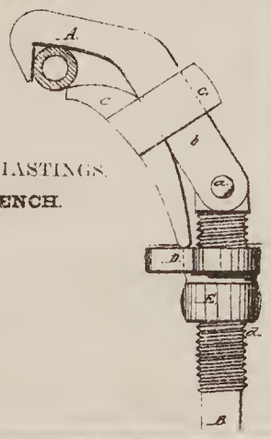
GEORGE HALL. **HAND SEED-SOWER.** 94,105,



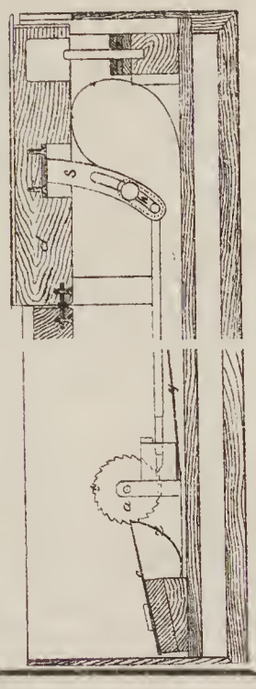
94,106, RICHARD HANEY. JAMES S. ESTES **CULTIVATORS.**



94,107, MICHAEL HASTINGS. **PIPE-WRENCH.**

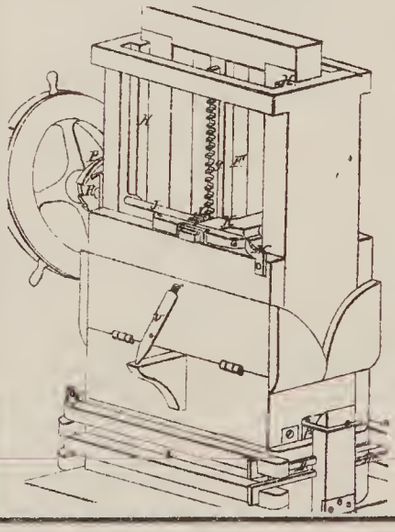


94,108, GEORGE HERRICK. **MUSICAL INSTRUMENTS.**

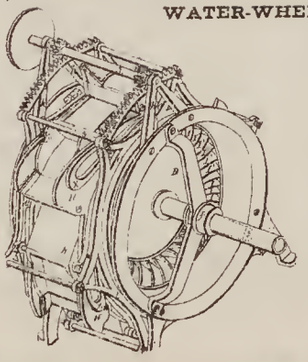


94,109. CHRISTIAN HESSE. **SAFETY-DOOR FOR BUILDINGS.**

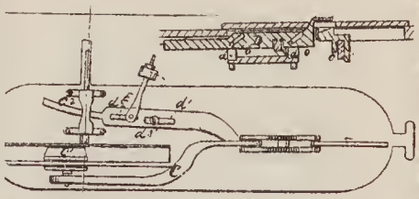
94,110, P. HIGDON. **BALING-PRESSES.**



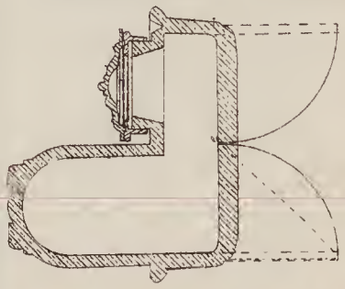
94,111, OTIS J. HODGE. **WATER-WHEELS.**



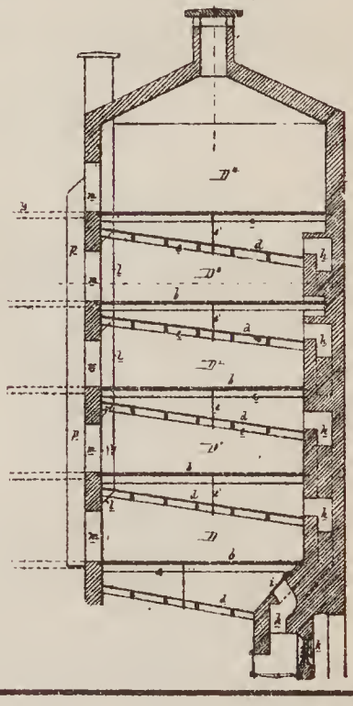
94,112, GEORGE W. HOFFMAN. **SEWING-MACHINE.**



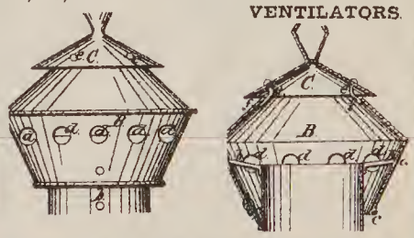
94,113, THOS. S. HUDSON. **MANUFACTURE OF INKSTANDS.**



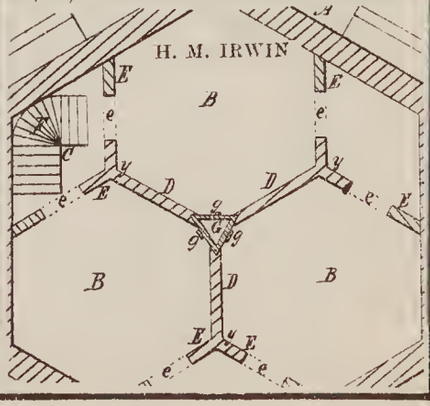
MALT-KILNS AND MALT-HOUSES. 94,114, W. W. HUGHES.



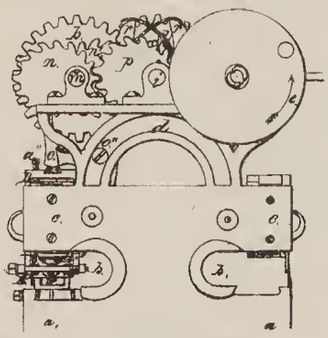
94,115, MICHAEL T. HYNES. **VENTILATORS.**



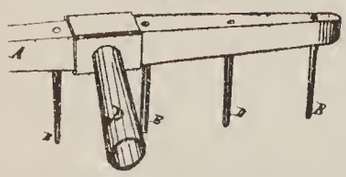
94,116, **CONSTRUCTION OF HOUSES.** H. M. IRWIN



94,117, WM. H. IVENS. W. E. BROOKE.
PUNCHING AND SHEARING METAL.

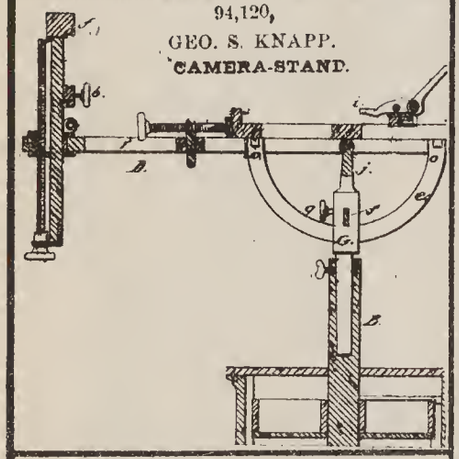


94,118, DANIEL JOHNSTON.
HAND-RAKES.

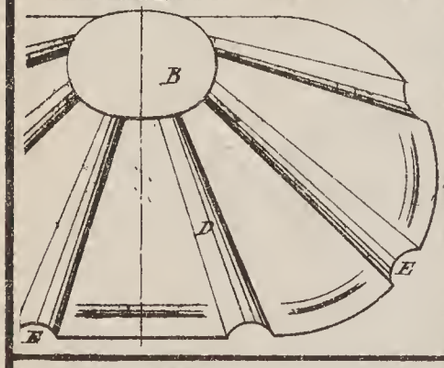


94,119, JNO. P. KIRK.
TOY-PISTOL.

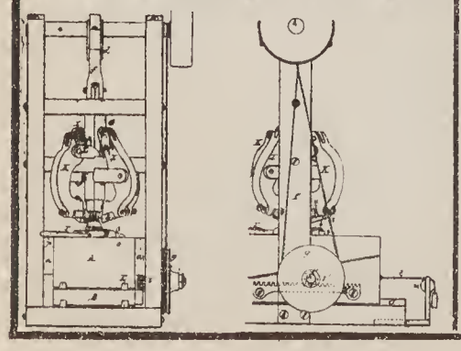
94,120, GEO. S. KNAPP.
CAMERA-STAND.



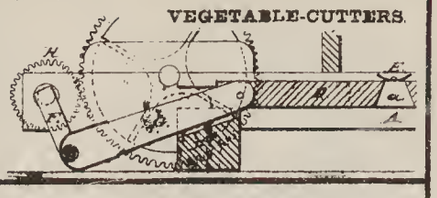
94,121, JACOB R. MANNY.
DIAPHRAGM FOR WASH-BOILERS.



94,122, MERRICK D. MARCY.
MACHINES FOR MAKING BOLT-HEADS.



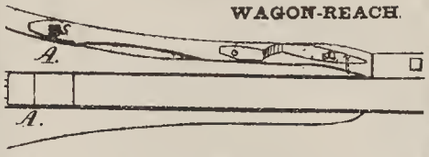
94,123, SOLOMON METZGER.
VEGETABLE-CUTTERS.



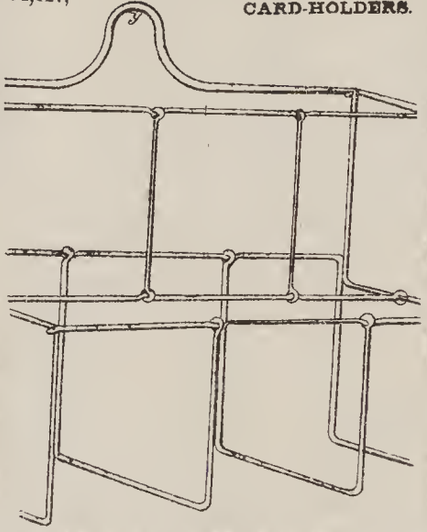
94,124, WILLIAM A. MIDDLETON.
FENCE-POSTS.

94,125, HENRY MILLER.
GARDEN-IMPLEMENT.

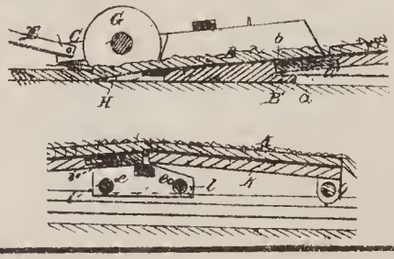
94,126, JAMES H. MOFFETT.
WAGON-REACH.



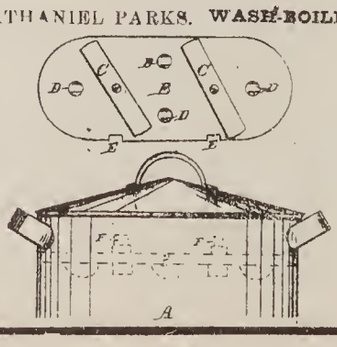
94,127, WILLIAM R. OATLEY.
CARD-HOLDERS.



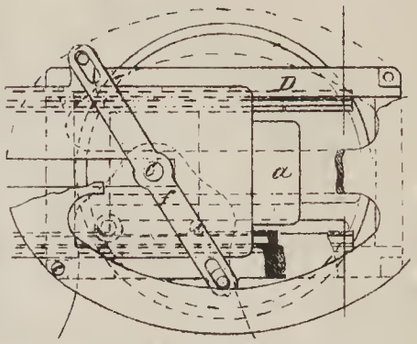
94,128, JAIRUS OSGOOD.
MACHINE FOR MAKING SOD-FENCE.



94,129, NATHANIEL PARKS. **WASH-BOILER.**

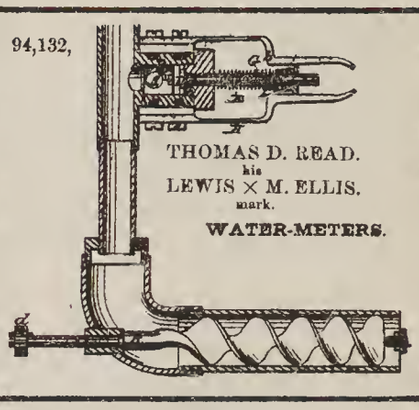


94,130, PAUL PRYIBIL.
MACHINE FOR TURNING OVALS.

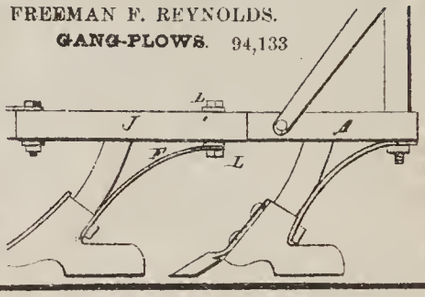


94,131, JOHN B. READ.
MANUFACTURE OF PAPER.

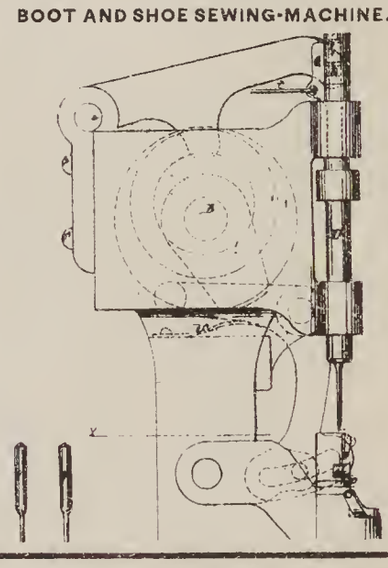
94,132, THOMAS D. READ. his LEWIS × M. ELLIS. mark.
WATER-METERS.



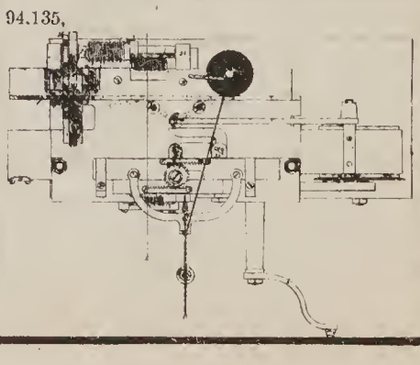
FREEMAN F. REYNOLDS.
GANG-PLOWS. 94,133



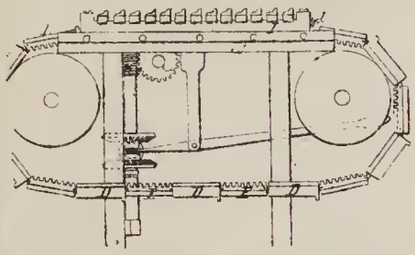
94,134 EVERETT P. RICHARDSON.
BOOT AND SHOE SEWING-MACHINE.



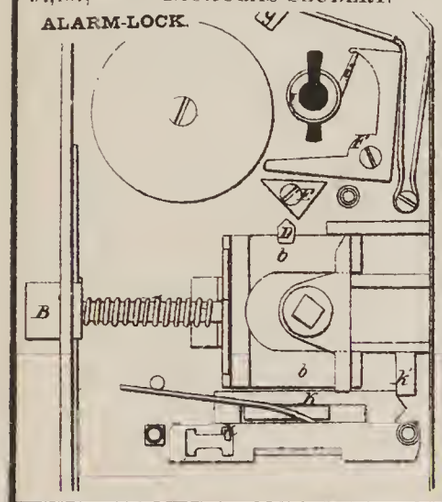
S. H. ROPER. **KNITTING-MACHINE.**
94,135,



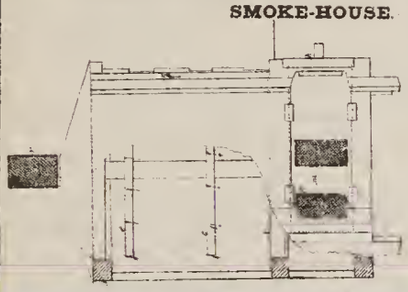
94,136, D. R. SATTERLEE.
MAKING SLATE-PENCILS.



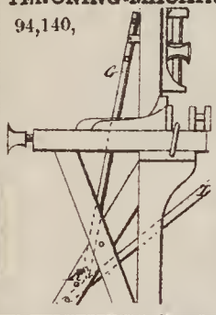
94,137, NICHOLAS SEUBERT.
ALARM-LOCK.



94,138, LEWIS W. SHAEFFER.
SMOKE-HOUSE.

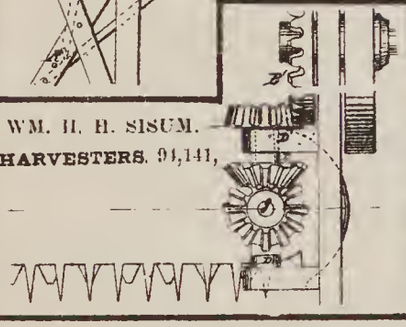


WILLIAM H. SIBLE.
MORTISING AND TENONING-MACHINE.
94,140,

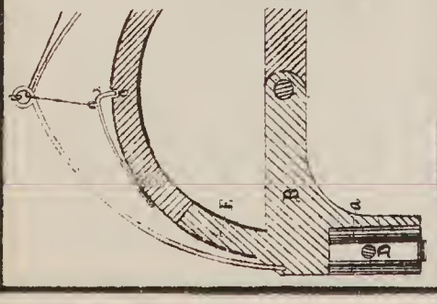


94,139,
S. SHERWOOD.
WATER-WHEEL.

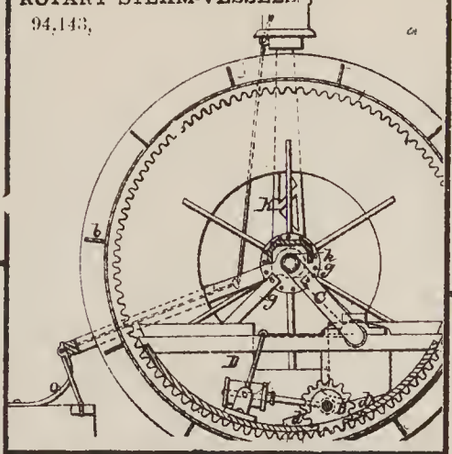
WM. H. H. SISUM.
HARVESTERS. 94,141,



94,142, SIMON SLACK
HORSE HAY-FORKS.



GEORGE T. SNYDER.
ROTARY STEAM-VESSELS.
94,143,



94,144, WILLIAM SPENCER.
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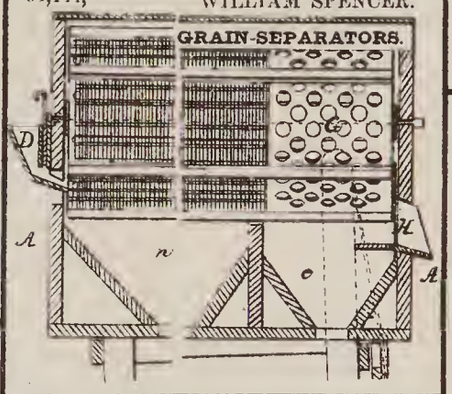

94,145, WELCOME SPRAGUE.
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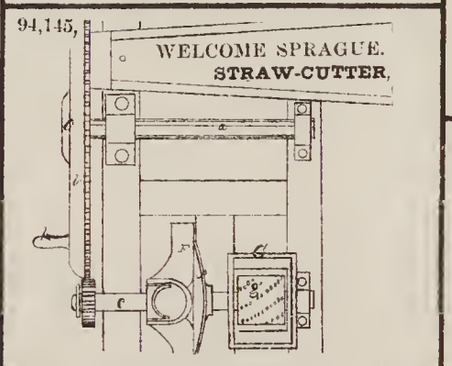

94,146, MELVIN STEPHENS.
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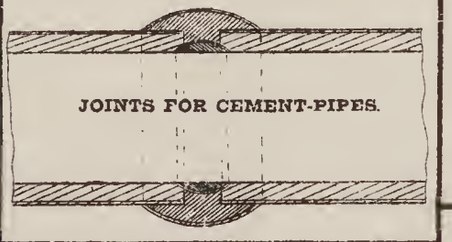

94,147, B. K. TAYLOR.
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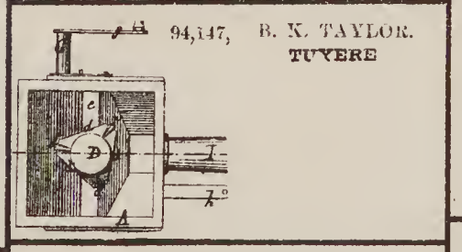

MICHAEL TROMLY.
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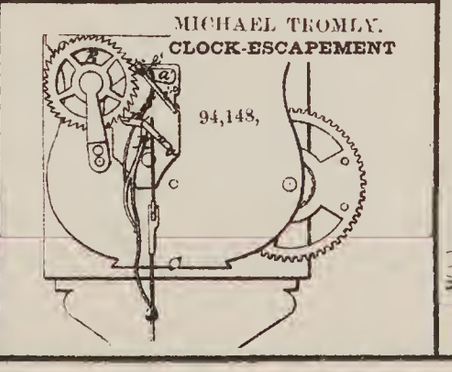
94,148,



94,149, CHARLES TRUESDALE.
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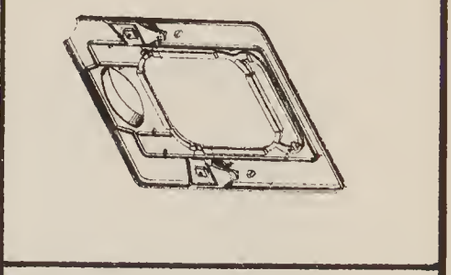

94,150, JOHN J. UNSWORTH.
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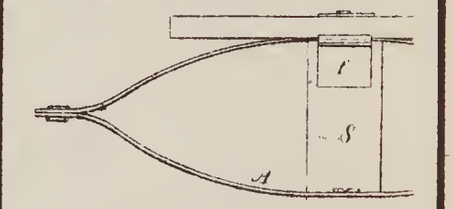

94,151, J. C. VANPELT.
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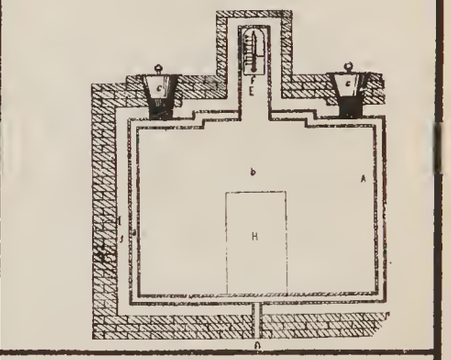

94,152, ELIJAH WARE.
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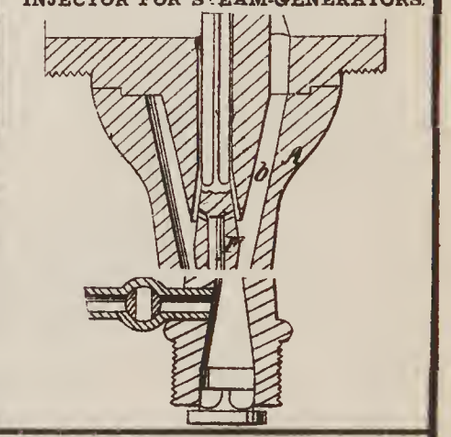
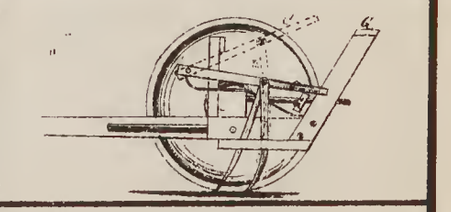


94,153, ELI G. WARNER. **HARROWS.**



94,154, WILLIAM WATSON
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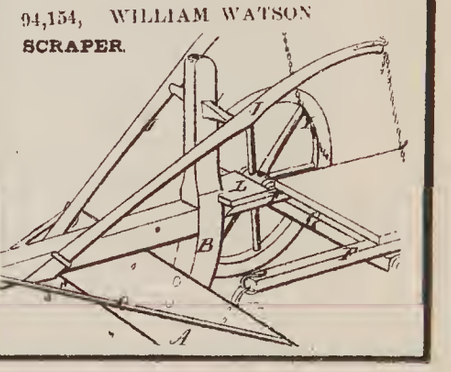

94,155, CHARLES WEBER.
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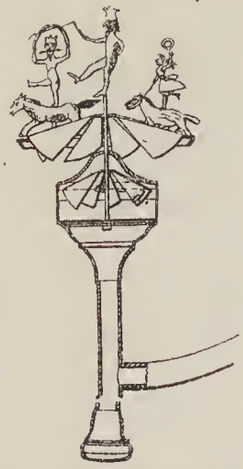

94,156, JACOB WEIMAR.
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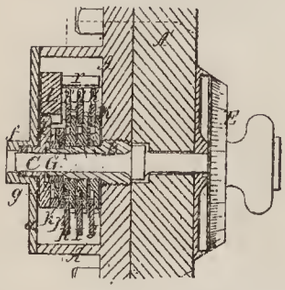

94,157, C. G. WHEELER.
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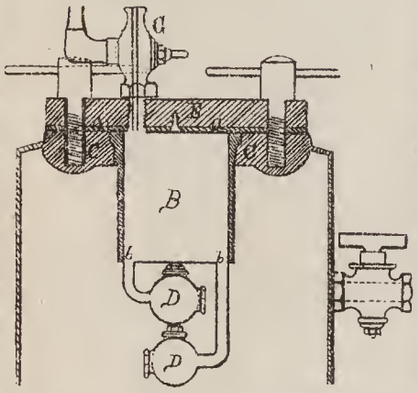

94,158, SIDNEY S. WHEELER.
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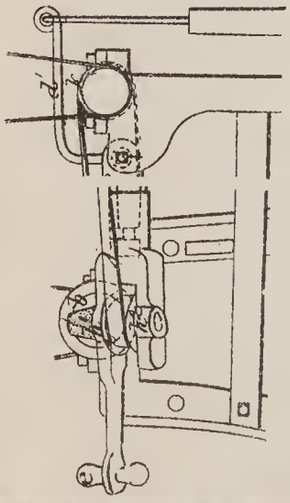

94,159, JOHN P. WHIPPLE.
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94,160, GEO. A. WHITCOMB.
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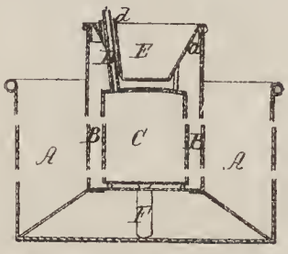

94,161, WILLIAM A. WILSON.
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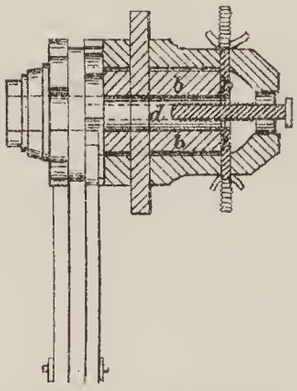

94,162, A. N. WOLF.
JOEL HAAG.
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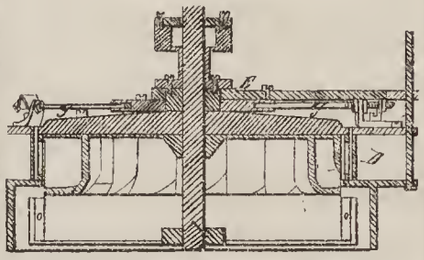

94,163, J. V. WOOLSEY.
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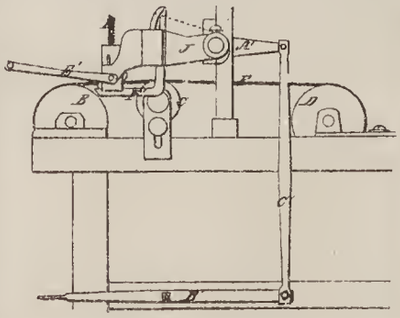

94,164. J. V. WOOLSEY.
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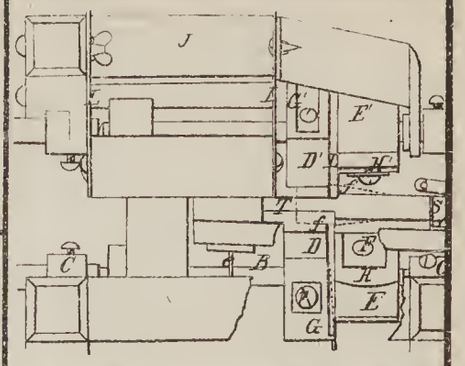

94,165, ELIAS M. WRIGHT.
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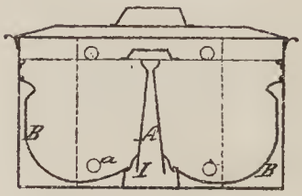

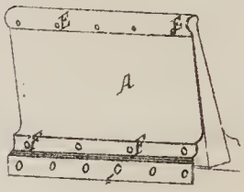

94,166. ANDRE AVERY.
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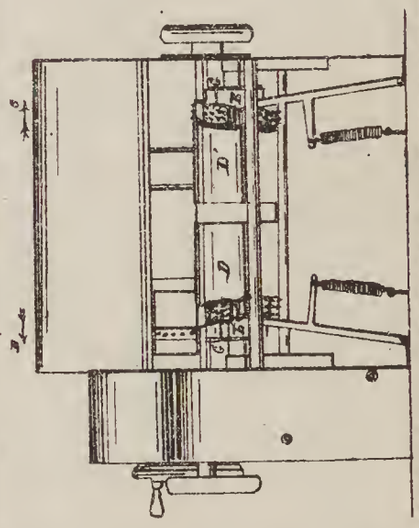

94,167, ALZIRUS BROWN.
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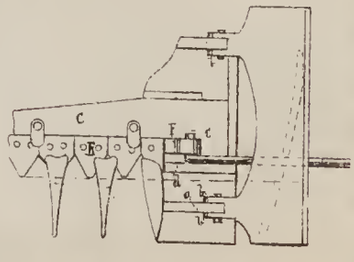
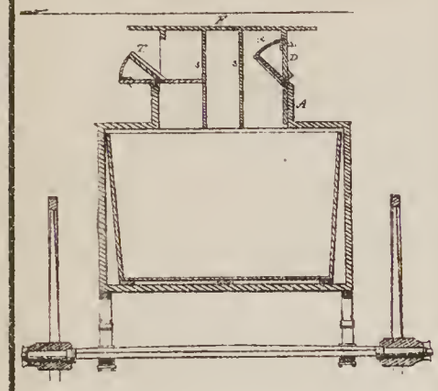


94,168, D. D. FOLEY.

VEHICLES FOR CARRYING MAIL.



94,169, CLARK JILLSON.

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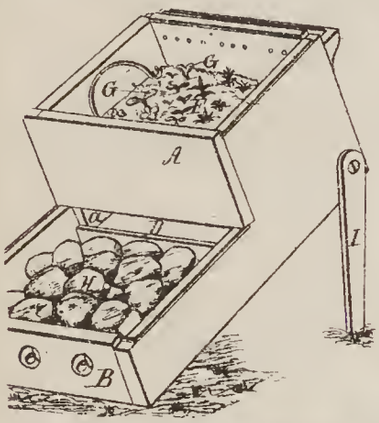

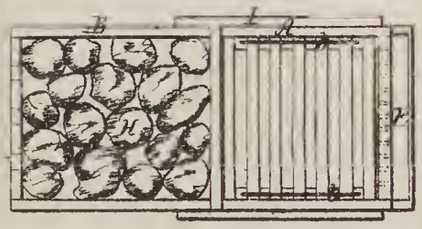

3,613, VIRGIL W. BLANCHARD.
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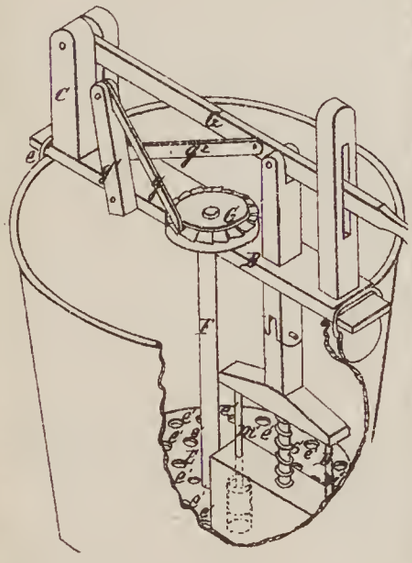
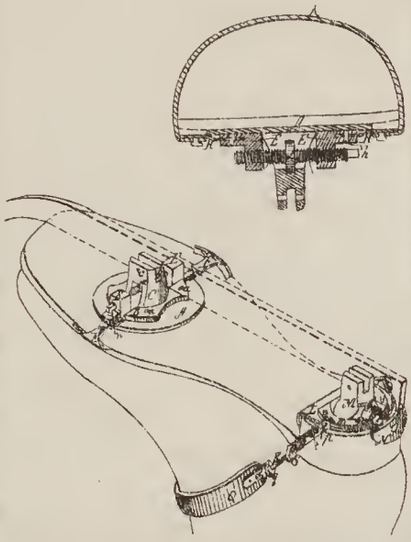


3,614. JOSEPH F. CALHOUN

SKATES.



3,615, ALEX. W. HARRIS.

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3,616, JAS. W. MURFEE.

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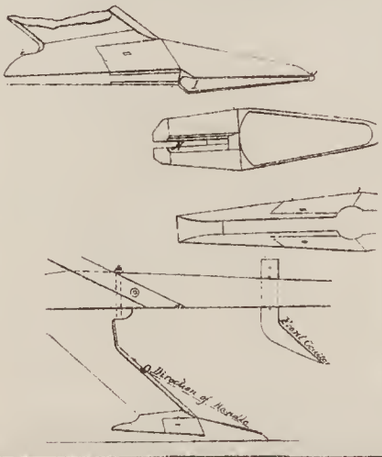

3,617, CHAS. PARKER.

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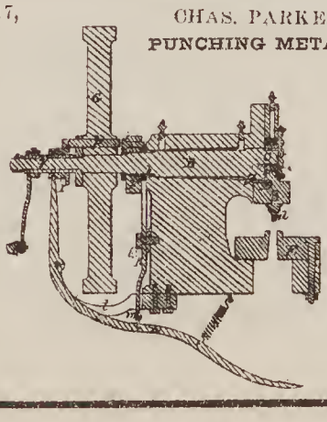

3,618, EDWIN R. STILWELL.

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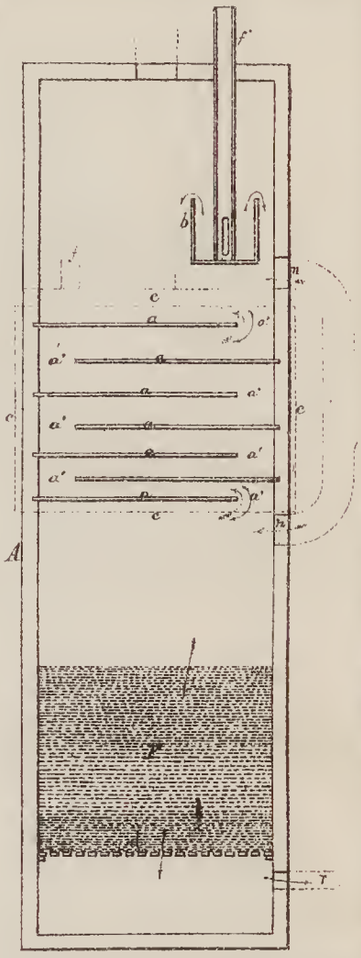

3,619, C. H. EMERSON.
JOHN F. EMERSON.

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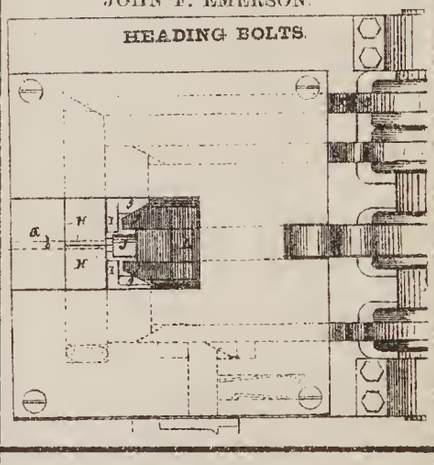

3,620, D. R. PRINDLE.

PRESERVING WOOD AND TIMBER.

3,621, P. H. ROOTS.

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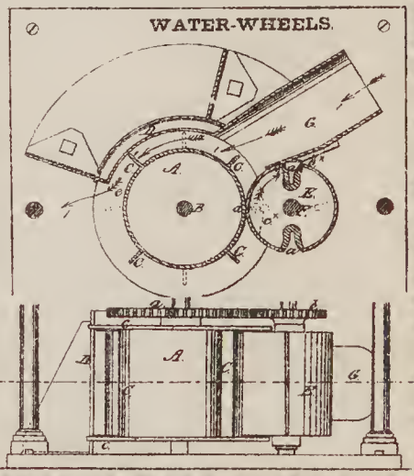

ILLUSTRATIONS OF PATENTS

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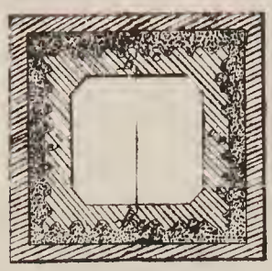
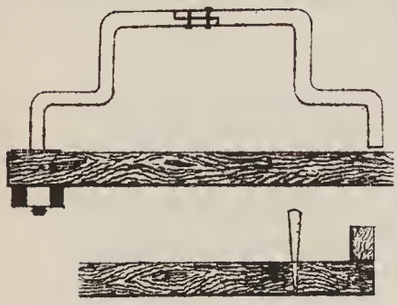
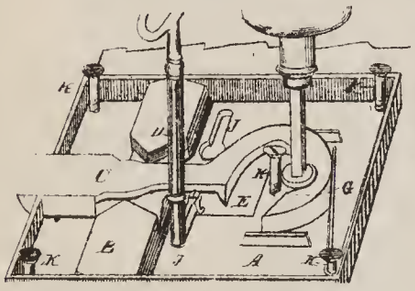
94,170, GEORGE ABEL. JOHN PEDDER. **INGOT-MOULDS**



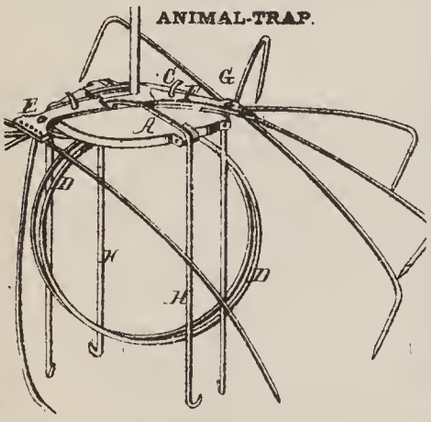
94,171. SOLOMON A. ALEXANDER. EDWARD DUNN. **REST FOR LOCOMOTIVE CROSS-HEADS.**



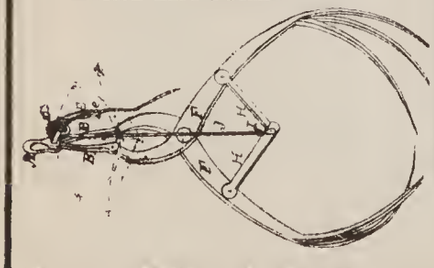
94,172, JAMES H. ALLEN. JOHN SCHWAB. **COMBINED LATCH AND LOCK.**



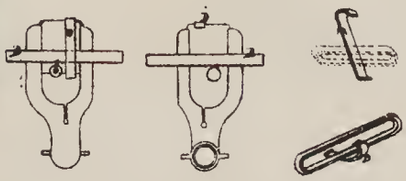
94,173, JAS. W. BAGBY. **ANIMAL-TRAP.**



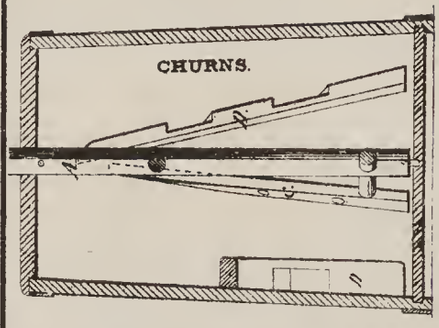
94,174, WILLIAM D. BALLARD. **HORSE HAY-FORKS**



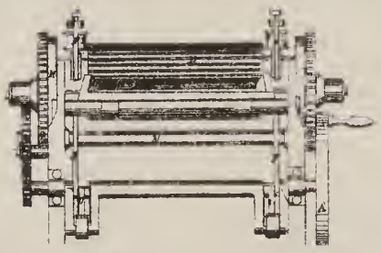
94,175, MENZO M. BENSTER. **GUIDE FOR SEWING-MACHINE.**



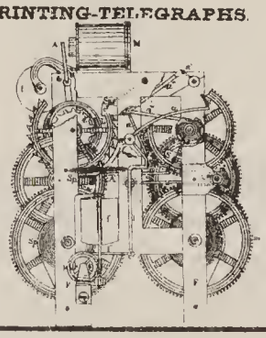
94,176, G. BERKSTRESSER. **CHURNS.**



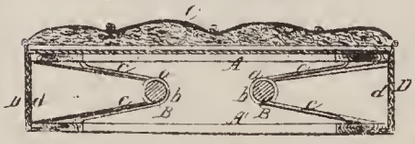
94,177, A. G. BILL **FLAX-BRAKES.**



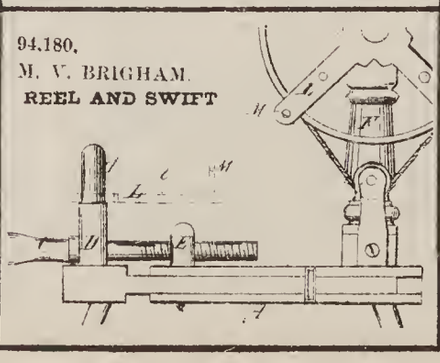
94,178, JOHN BLACKIE. **PRINTING-TELEGRAPHS.**



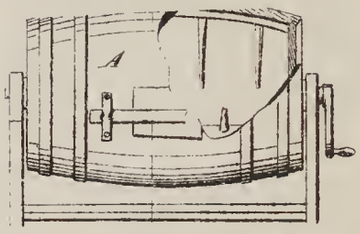
94,179. J. DEAN BONNEY. **SPRING-SEAT FOR CHAIRS, CARS, CARRIAGES, &c.**



94,180, M. V. BRIGHAM. **REEL AND SWIFT**

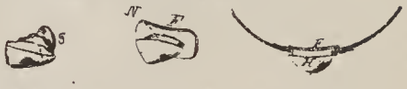


94,181 JACOB BUMP. **VEGETABLE-WASHER.**

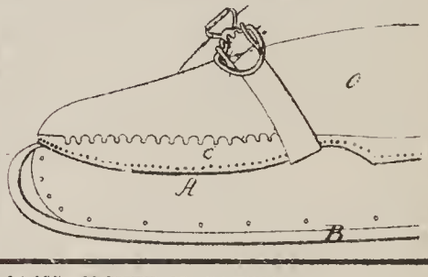


94,182, FREDERICK R. BUTLER. **CLOTHES-DRIER.**

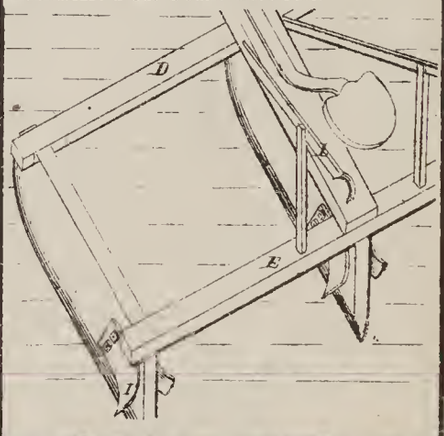
94,183, JOHN B. CARTER. **BUTTONS OR STUDS**



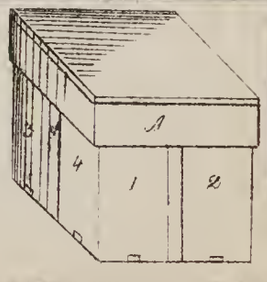
94,184, S. P. CASTLE **SKATES.**



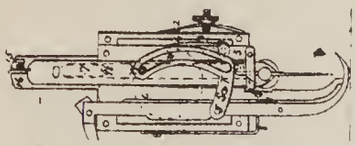
94,185, OLIVER H. CATEY. **MARKER FOR CORN-GROUND**



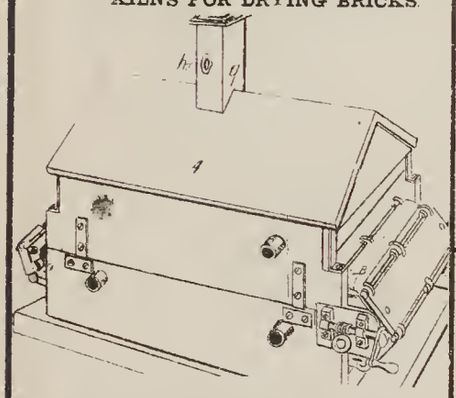
94,186, DAVID COLLOM. **BEE-HIVES.**



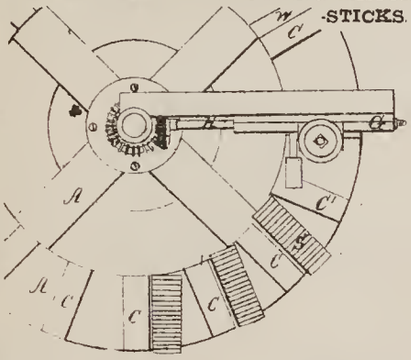
94,187, JOB A. DAVIS.
SEWING-MACHINE



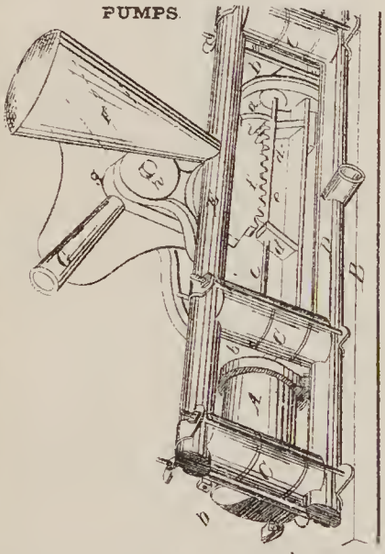
94,188,
E. C. DEAN. GEO. P. TENNEY.
H. HAMILTON. A. T. PUTNAM.
KILNS FOR DRYING BRICKS.



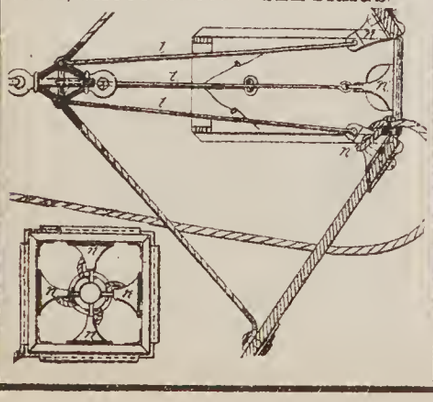
94,189 FRANCOIS DE BOWENS.
MACHINERY FOR CUTTING MATCH -STICKS.



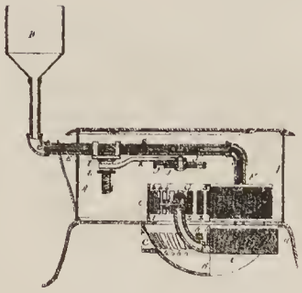
94,190, ALEXANDER DIXON.
PUMPS.



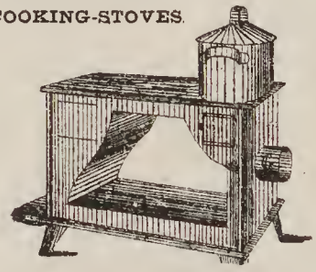
94,191, JACOB EDSON. **SEA-DRAGS.**



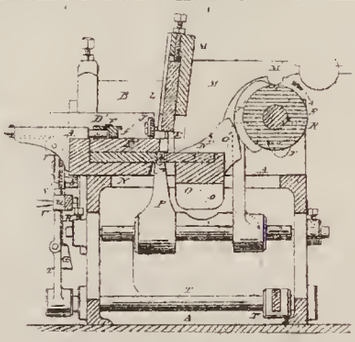
94,192,
ISAAC N. ELWELL.
GAS-STOVES.



94,193. MICHEL G. FAGAN.
COOKING-STOVES.

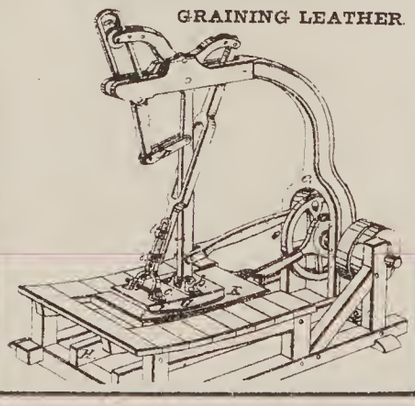


94,194, DAVID J. FARMER.
MACHINE FOR MAKING CUT NAILS.

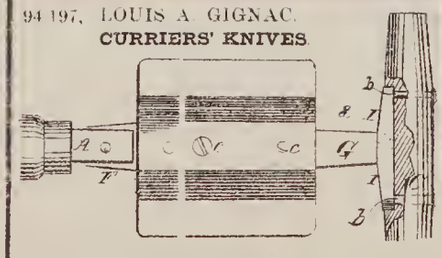


94,195, DANIEL FISHER. **FENCE-POSTS.**

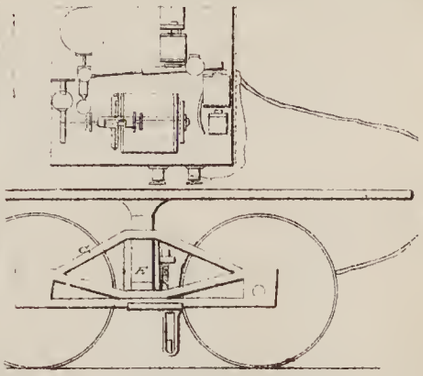
94,196, LOUIS A. GIGNAC.
MACHINE FOR BOARDING AND GRAINING LEATHER.



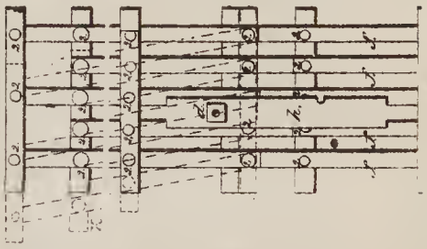
94,197, LOUIS A. GIGNAC.
CURRIERS' KNIVES.



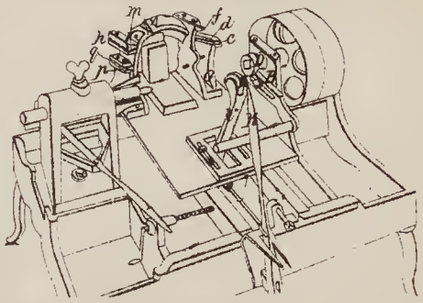
94,198, WEBSTER GILLETT
ELECTRO-MAGNETIC ALARMS FOR RAILROAD-CARS.



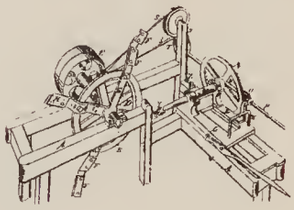
94,199, JAMES GODFREY. **FENCE.**



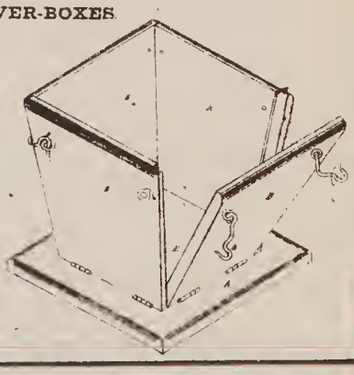
94,200, ANDREW GOODYEAR.
LATHE FOR TURNING HUBS.



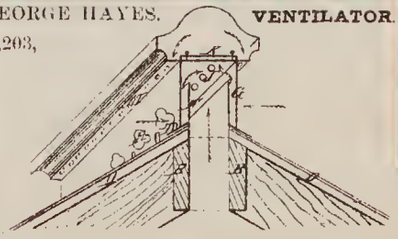
94,201, ANDREW GOODYEAR.
MACHINE FOR SHAPING HUBS.



94,202, GUSTAF GUSTAFSON.
FLOWER-BOXES.

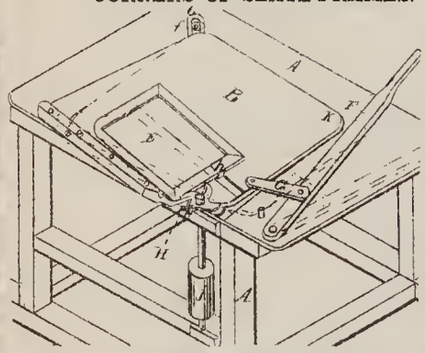


GEORGE HAYES. **VENTILATOR.**
94,203,

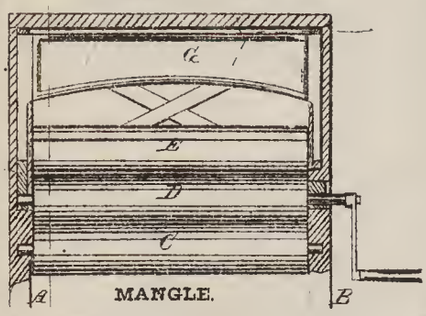


94,204, THEO. WM. HEINEMANN.
METHOD OF SEASONING AND PRESERVING WOOD.

94,205, ROBT. HENEAGE.
ALBERT STORER.
MACHINE FOR ROUNDING THE CORNERS OF SLATE-FRAMES.

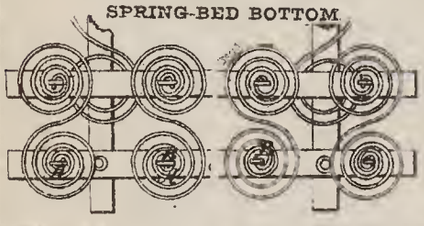


94,206, PETER HENRY HINK.
HERRMANN KAACK.

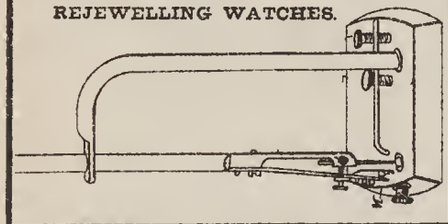


MANGLE.

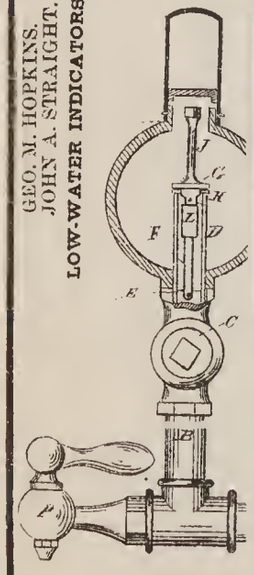
94,207, C. HOGEBOOM.
M. HOGEBOOM.
L. VAN VLECK.
SPRING-BED BOTTOM.



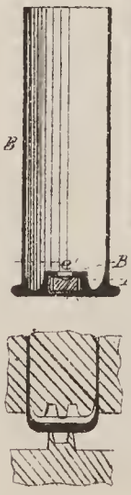
94,208, C. HOPKINS. **APPARATUS FOR REJEWELLING WATCHES.**



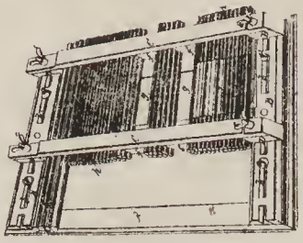
94,209,
GEO. M. HOPKINS.
JOHN A. STRAIGHT.
LOW-WATER INDICATORS.



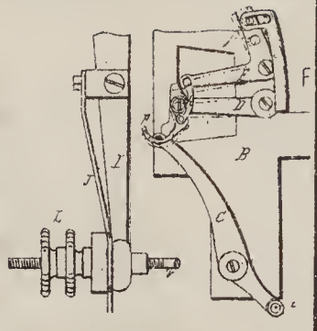
94,210.
B. B. HOTCHKISS,
METALLIC CARTRIDGES.



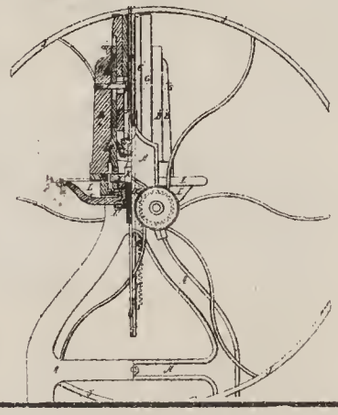
94,211 GEO. R. HOUGHTON.
APPARATUS FOR FLUTING AND QUILLING.



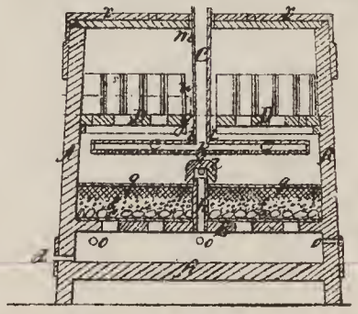
94,212,
EDMUND HOWARD.
W. H. JACKSON.
SEWING-MACHINE FOR WORKING BUTTON-HOLES.



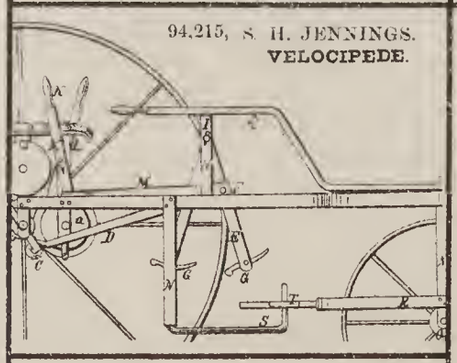
94,213, JARVIS HOWE.
CRIMPING-BRAKE.



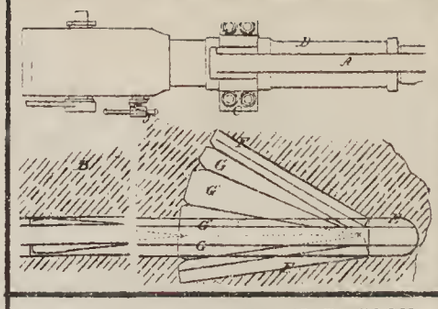
94,214, OTTO JACOBI. **MANUFACTURE OF CARBONATE OF LEAD, ACETATE OF COP- PER, AND ACETATE OF IRON.**



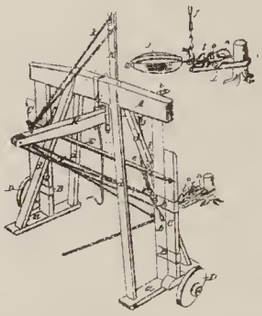
94,215, S. H. JENNINGS.
VELOCIPEDE.



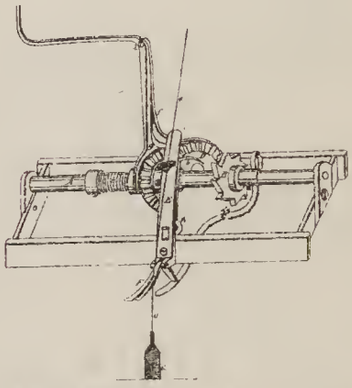
94,216, JOHN JONES.
S. P. BIDDER,
COAL-BREAKING MACHINE.



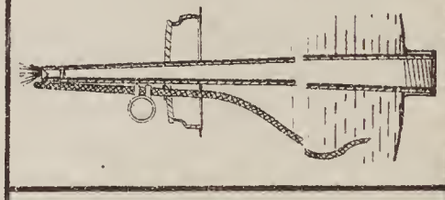
94,217, J. A. KAUSSLER. H. B. COOK.
STUMP-EXTRACTOR.



94,218, JOHN KENNEDY.
STOPPING-MECHANISM FOR KNITTING-MACHINE.



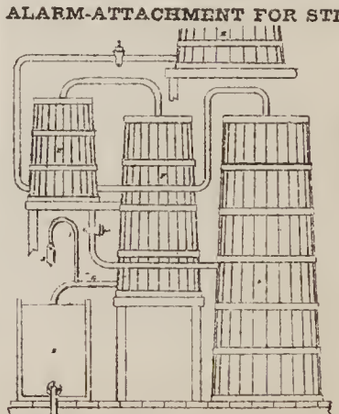
94,219, JOSHUA KIDD. **APPARATUS AND PROCESS FOR OBTAINING LIGHT FROM GAS AND OIL.**



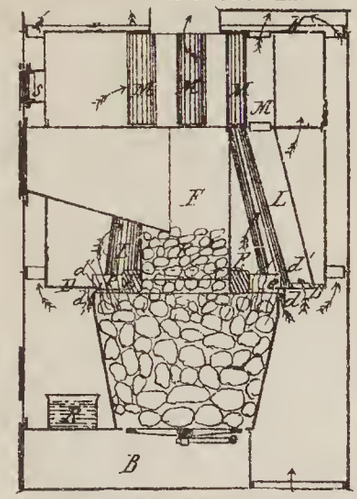
94,220, CAMILLE KREJCI.
PRINTERS' INK.

94,221, DANIEL LEIBERT. **LOTION FOR THE DESTRUCTION OF INSECTS.**

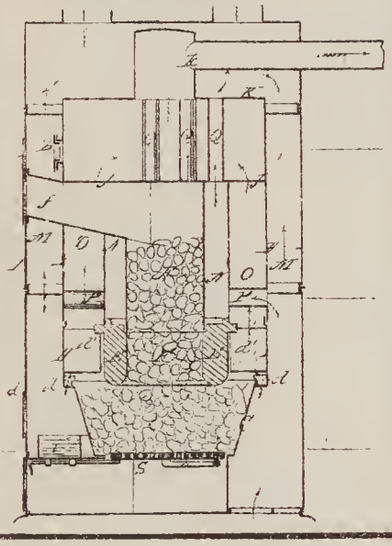
94,222, JOHN C. LEISTNER.
ALARM-ATTACHMENT FOR STILLS.



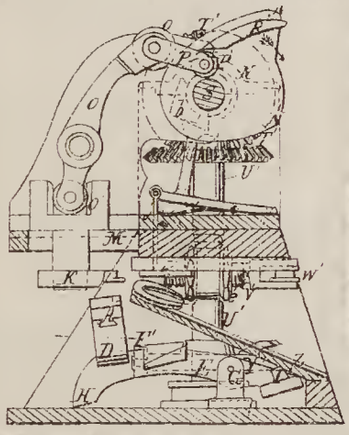
94,223. MOSES W. LESTER.
BASE-BURNING STOVES.



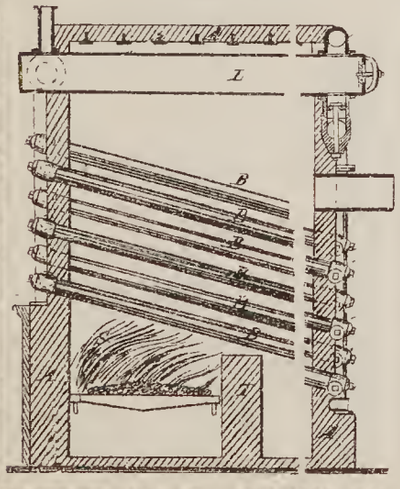
94,224. MOSES W. LESTER.
HOT-AIR FURNACE.



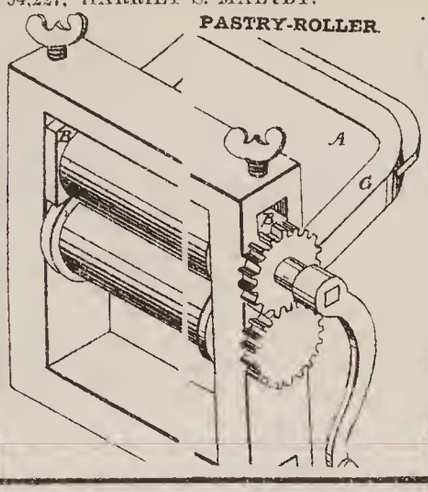
94,225. WILLIAM W. LEWIS.
MACHINE FOR MAKING HORSESHOES



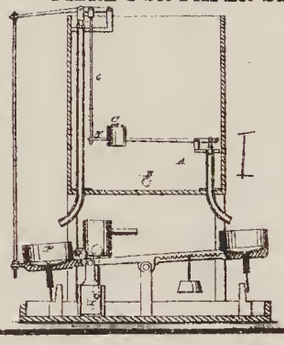
94,226. HERMAN W. LÜDERS.
STEAM-GENERATORS.



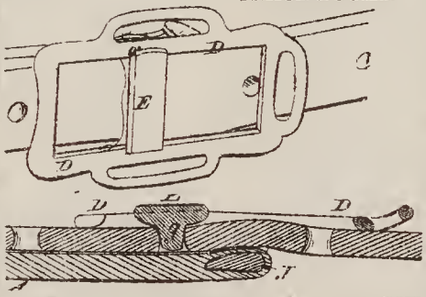
94,227. HARRIET S. MALTBY.
PASTRY-ROLLER.



94,228. GEO. E. MARSHALL.
PROCESS OF PREPARING WOOD FIBRE FOR PAPER STOCK.

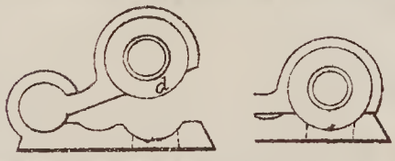


94,229. JOHN H. MARTIN.
TRACE-BUCKLE.

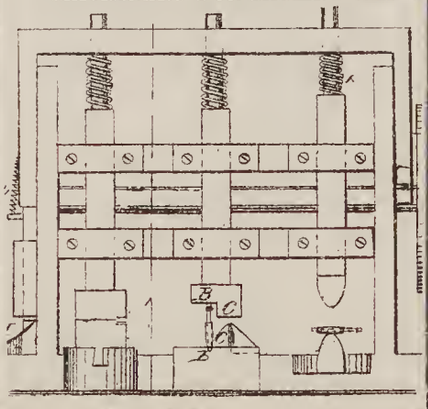


94,230. J. T. McDIVITT.
HAMES-FASTENER.

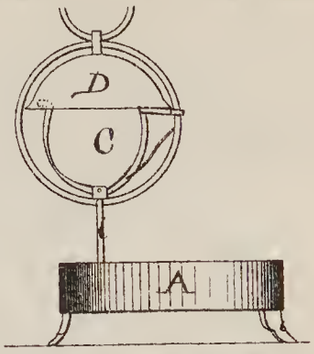
94,231. JOS. D. MOON. J. T. FOSTER.
STEAM-ENGINE VALVES.



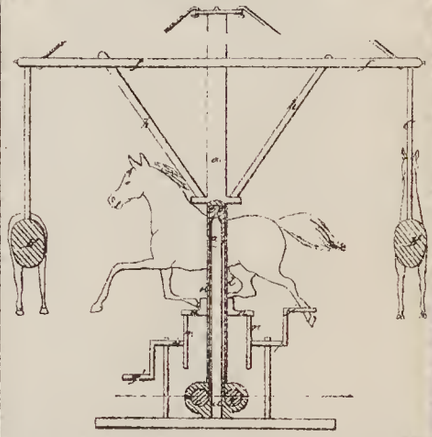
94,232. HENRY D. MORRIS.
MACHINERY FOR MAKING AXES.



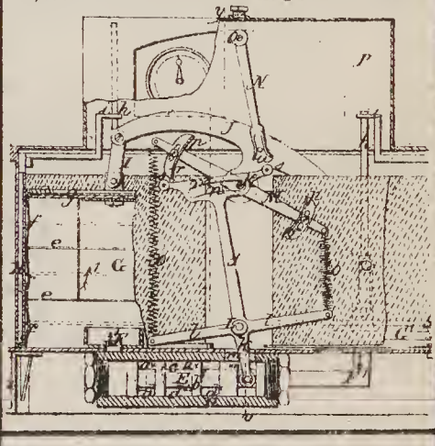
94,233. MARY ANN S. MULLIN.
RACK FOR SUGAR, CREAM, SALT



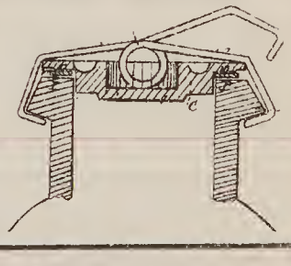
94,234. GEO. L. NEWHALL.
JOHN F. CUMMINGS.
FLYING-HORSE MACHINE.



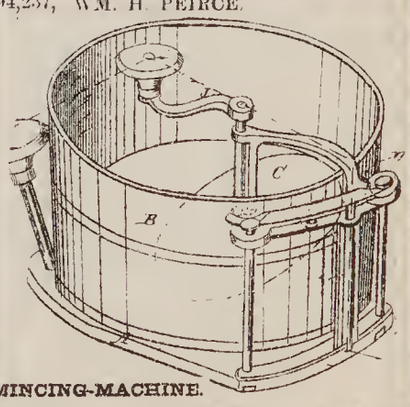
94,235. CHAS. NIDA. LIQUID-METERS.



94,236. THOMAS G. OTTERSON.
PRESERVE-JARS.

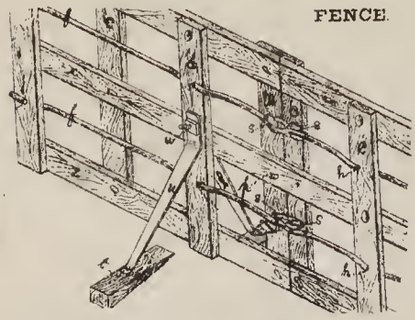


94,237. WM. H. PEIRCE.

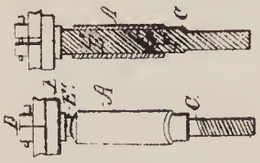


MINCING-MACHINE.

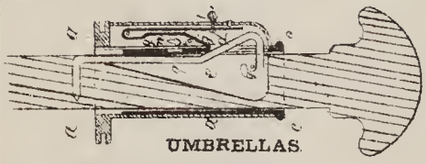
94,238, SALMON M. PRENTICE. **FENCE.**



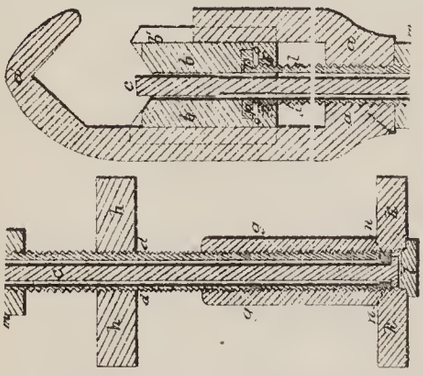
94,239, JOHN RICH. **LATHE-CHUCK.**



94,240, HORACE T. ROBBINS. **UMBRELLAS.**

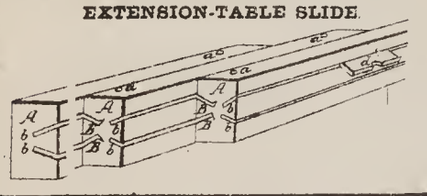


94,241, ANDREW ROBES. JOHN C. CHAPMAN. **PIPE-WRENCH AND PIPE-CUTTER.**

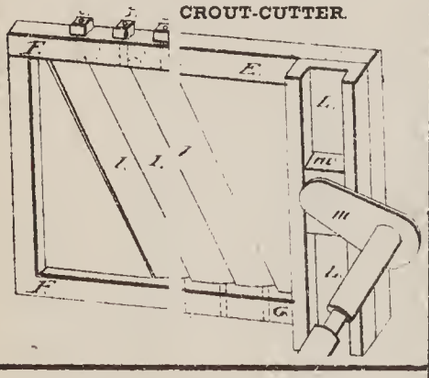


94,242, W. D. ROBINSON. **SHIPS' FENDERS.**

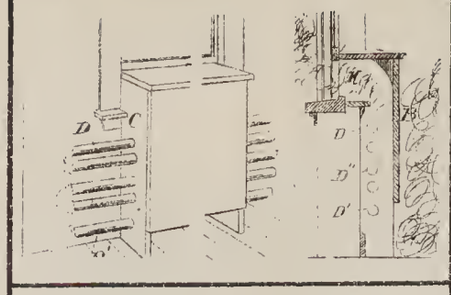
94,243, OTIS E. SANFORD. **EXTENSION-TABLE SLIDE.**



94,244, JOH. G. SCHWARZ. **CROUT-CUTTER.**

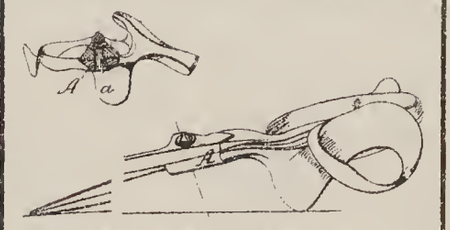


94,245, W. T. SEARS. WILLIAM EDSON. **VENTILATOR.**

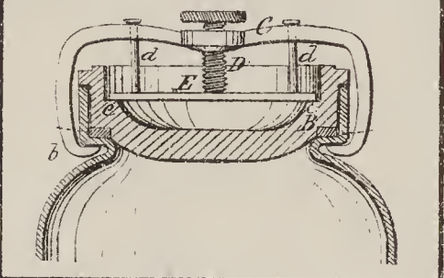


94,246, CHARLES A. SEELY. **PROCESS FOR EXTRACTING OILS, &c.**

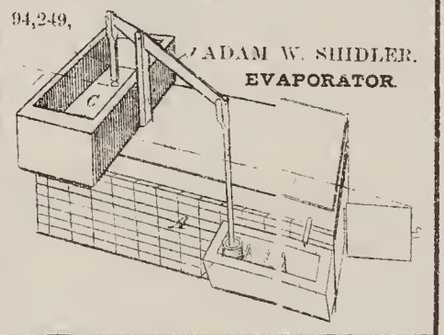
94,247, ROBERT H. SEYMOUR. **SHEARS.**



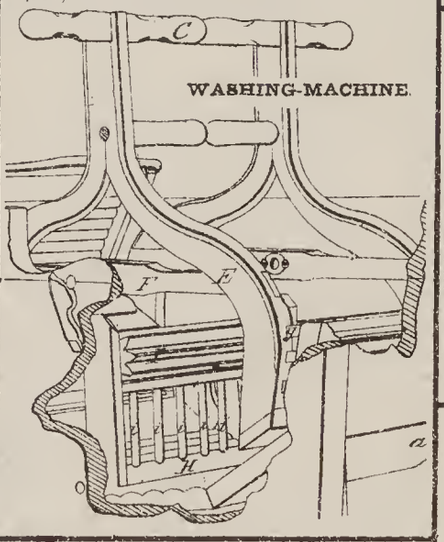
94,248, H. E. SHAFFER. **FRUIT-JARS.**



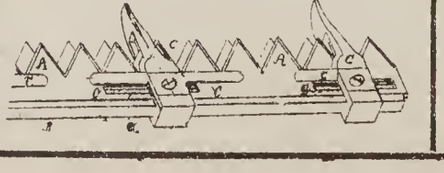
94,249, ADAM W. SHIDLER. **EVAPORATOR.**

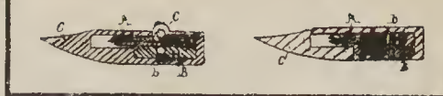


94,250, DANIEL SMALLWOOD. **WASHING-MACHINE.**



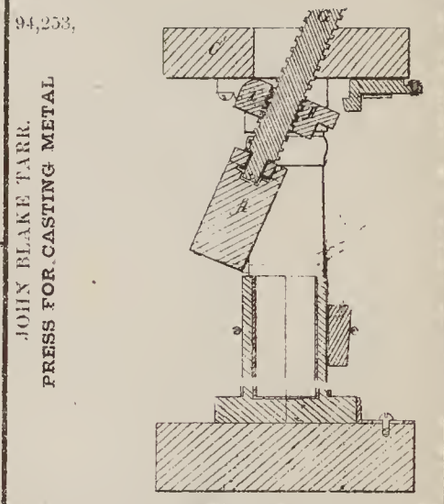
94,251, JAMES S. SMITH. JOHN CODER. **HARVESTER-CUTTERS.**



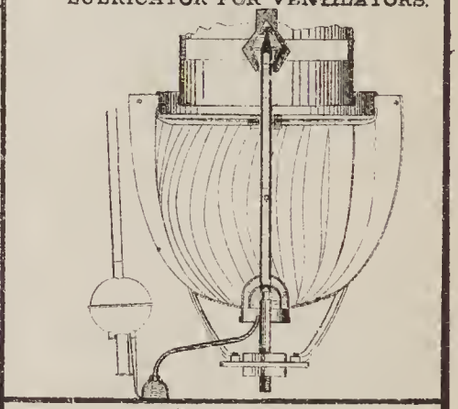


94,252, JOHN P. SMUCKER. **HUSK-MAT.**

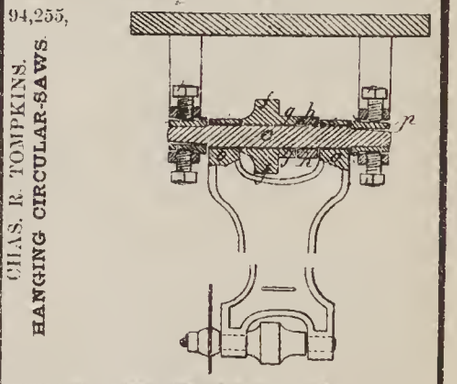
94,253, JOHN BLAKE TARR. **PRESS FOR CASTING METAL.**



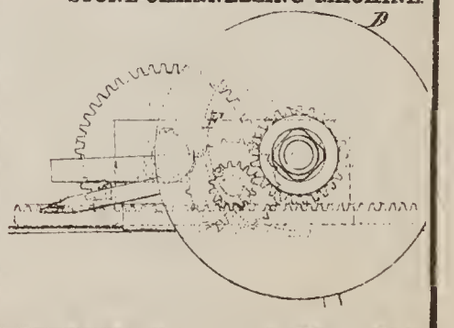
94,254 HUGH THOMAS. **LUBRICATOR FOR VENTILATORS.**



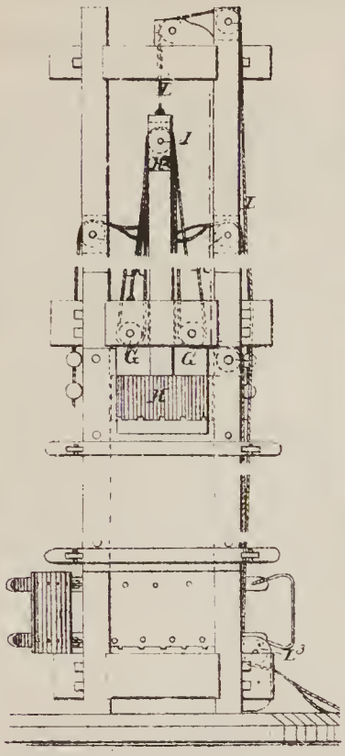
94,255, CHAS. R. TOMPKINS. **HANGING CIRCULAR-SAWS.**



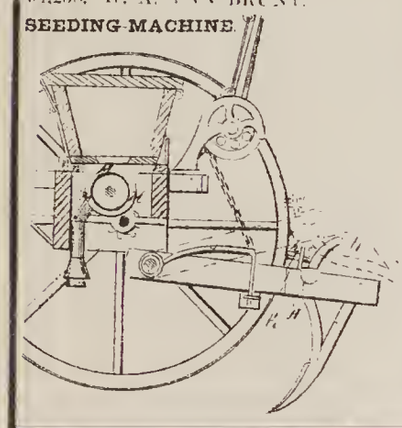
94,256. FREDERICK TOWNSEND. **STONE-CHANNELLING MACHINE.**



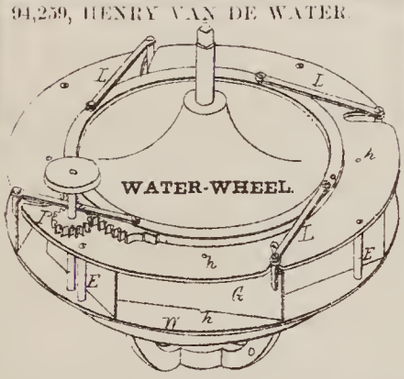
94,257. ISAAC H. TRAUE. **PRESSES.**



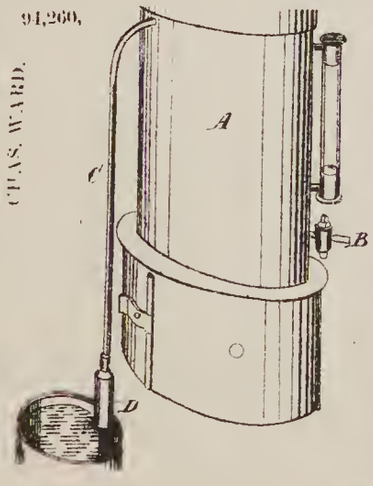
94,258. W. A. VAN BRUNT. **SEEDING-MACHINE.**



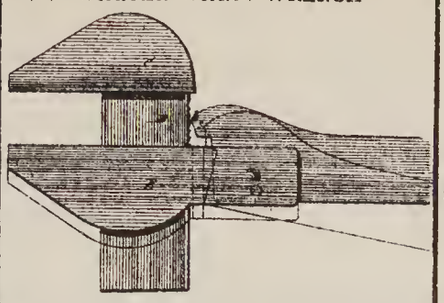
94,259, HENRY VAN DE WATER. **WATER-WHEEL.**



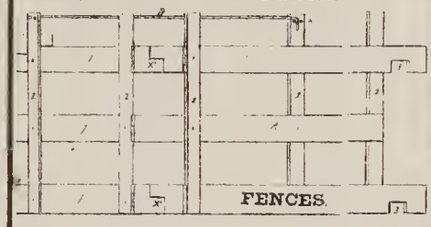
94,260, CHAS. WARD. **DEVICE FOR FILLING STEAM-GENERATORS.**



94,261. WALTER WARD. **WRENCH**

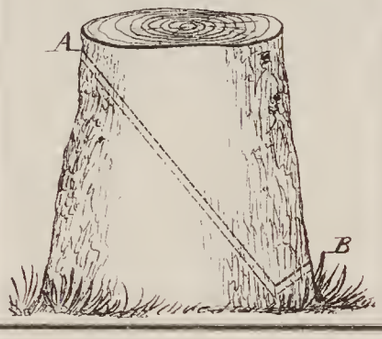


94,262, THOMAS WESTERMAN. **FENCES.**

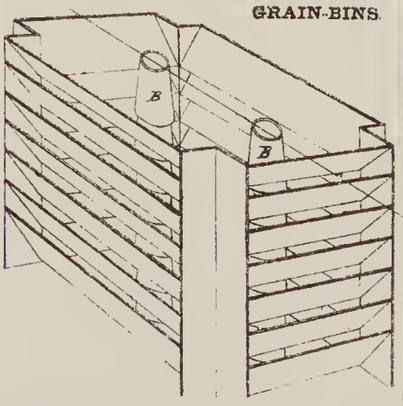


94,263, AMOS P. WILLARD. **MEANS FOR PUTTING UP AND USING POWDERS.**

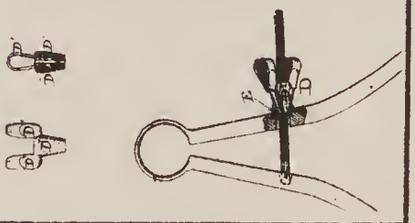
94,264, HENDERSON WILLARD **MODE OF REMOVING STUMPS.**



94,265, CHAUNCEY D. WOODRUFF. **GRAIN-BINS.**

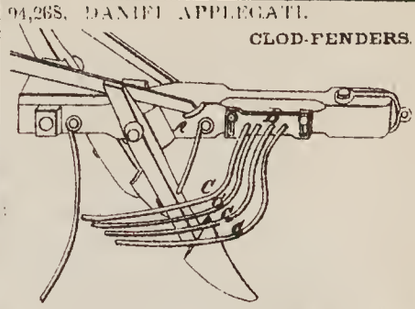


94,266, DANIEL WRIGHT, JR. **CLAMP-SCREW FOR CALIPERS, &c.**

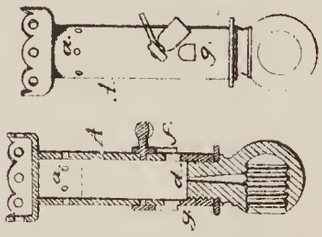


94,267, T. H. ANDRESS. **THILL-COUPLING**

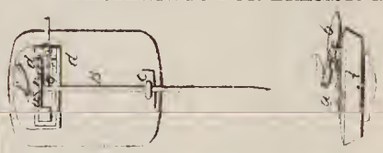
94,268. DANIEL APPLEGATE. **CLOD-FENDERS.**



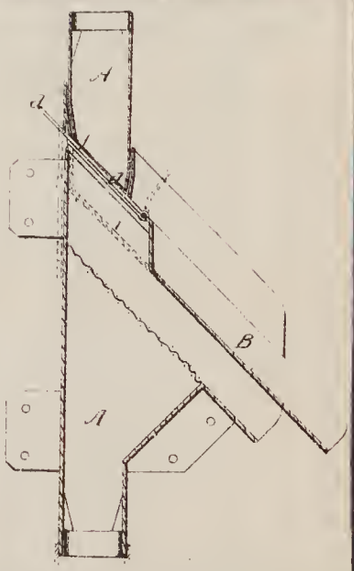
94,269, WM. AURICH. **VAPOR-BURNERS.**



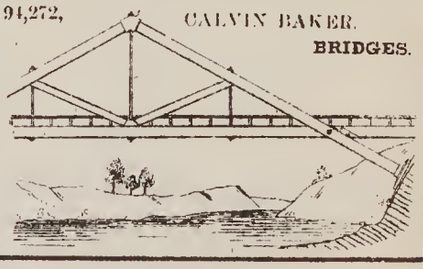
94,270. SAML. AYRES. **FASTENINGS FOR BREASTPINS**



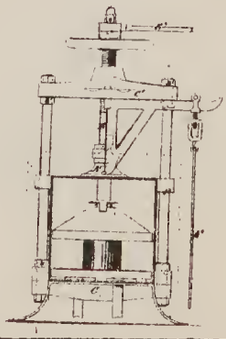
94,271. SAMUEL AYRES. **RAIN-WATER STRAINERS AND CUT-OFFS.**



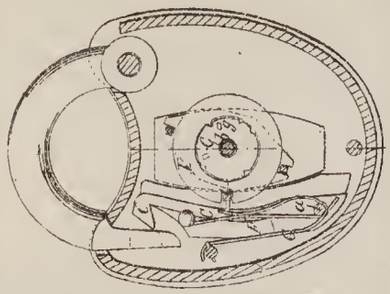
94,272, CALVIN BAKER. **BRIDGES.**



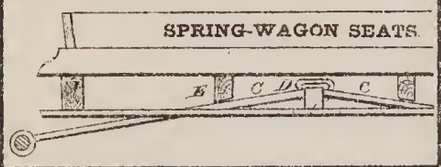
94,273. JOSEPH BANIGAN. **APPARATUS FOR PRESSING ANL VULCANIZING INDIA RUBBER**



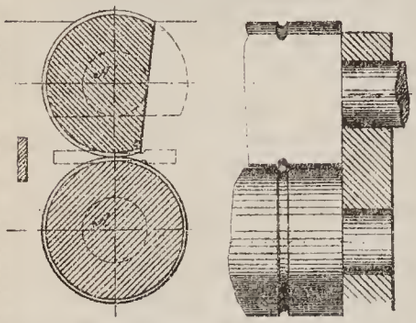
94,274, TRACY BEADLE, WILLIAM P. YATES.
PERMUTATION-PADLOCK.



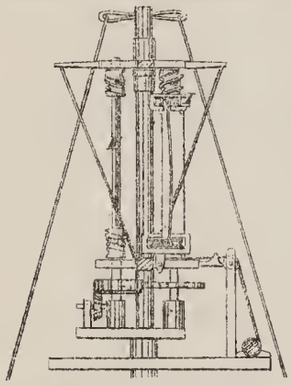
94,275, JACOB I. BEAR.
SPRING-WAGON SEATS.



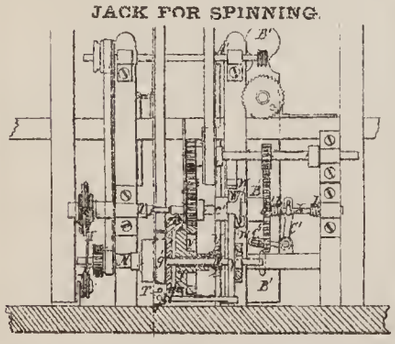
94,276, GEO. C. BELL. **METHOD OF MAKING SQUARE-NECKED BOLTS.**



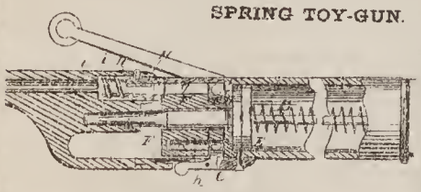
94,277, E. W. BROWN.
FURLING AND REEFING SAILS.



94,278, WILLIAM H. BROTHERS.
JACK FOR SPINNING.

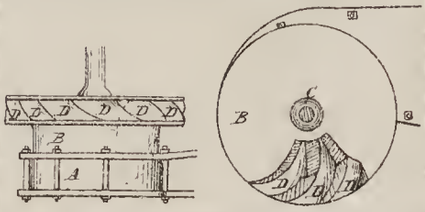


94,279, CHARLES BUNGE.
SPRING TOY-GUN.

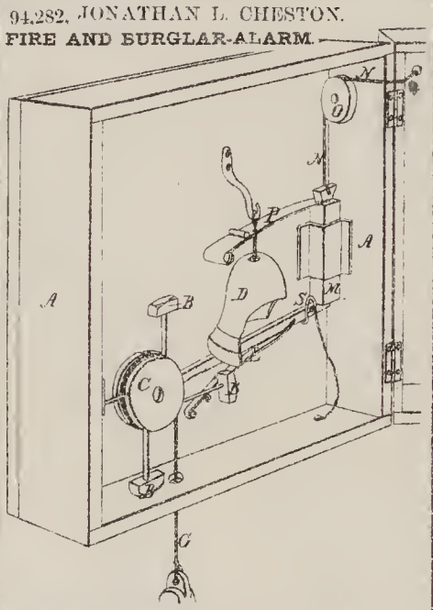


94,280, S. N. CHAPIN.
FERRULES.

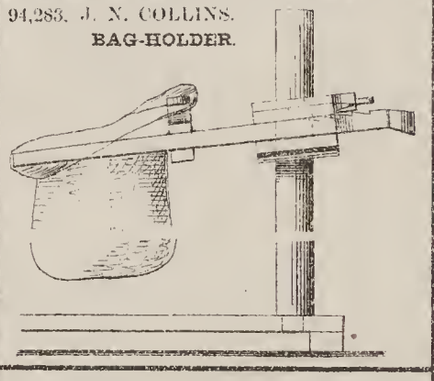
94,281, JOSHUA E. CHAPMAN.
TURBINE WATER-WHEEL.



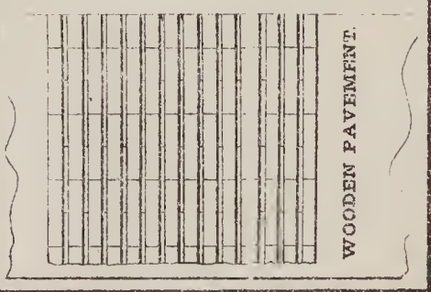
94,282, JONATHAN L. CHESTON.
FIRE AND BURGLAR-ALARM.



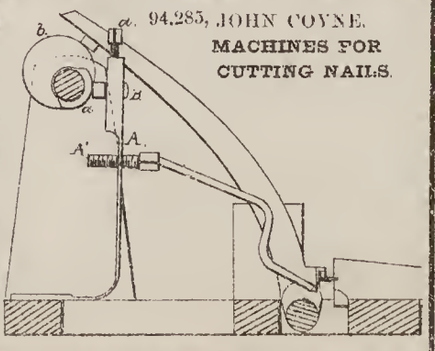
94,283, J. N. COLLINS.
BAG-HOLDER.



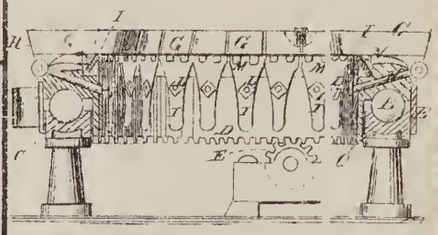
94,284, CHARLES CROZAT CONVERSE.
WOODEN PAVEMENT.



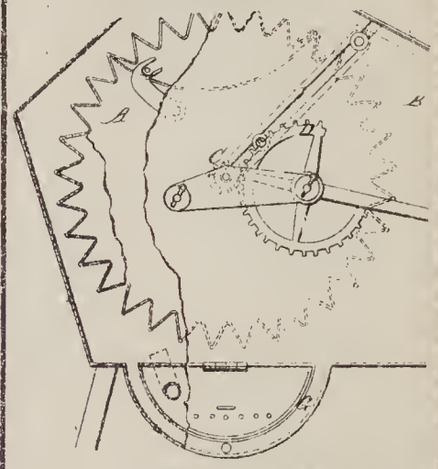
94,285, JOHN COYNE.
MACHINES FOR CUTTING NAILS.



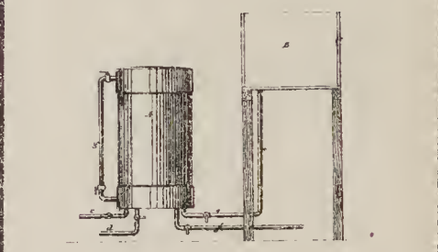
94,286, JOHN COYNE.
APPARATUS FOR THE MANUFACTURE OF PIG-BLOOM.



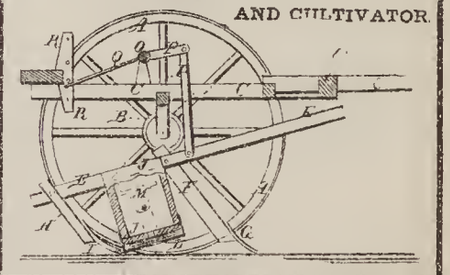
94,287, HERRMANN CRAMER.
WASHING-MACHINES.



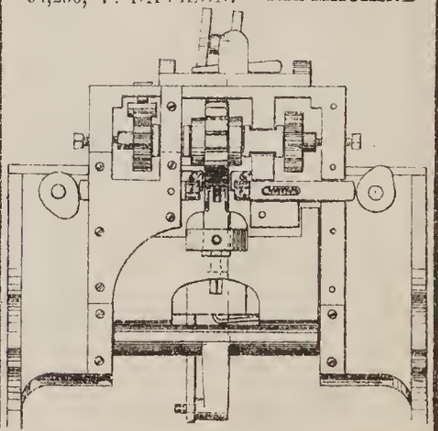
94,288, JAMES M. CROSE.
TANK-REGULATOR.



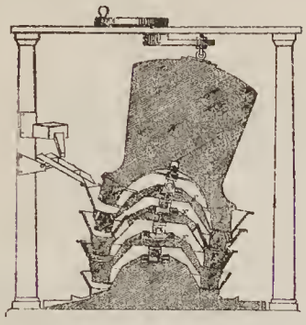
94,289, JAMES A. CURRIE.
COMBINED PLANTER AND CULTIVATOR.



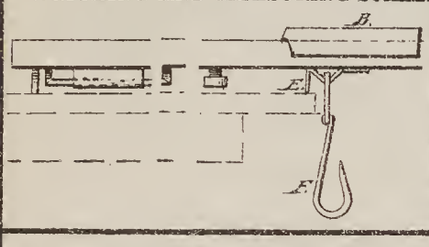
94,290, F. DAVISON. **NAIL-MACHINE**



94,291, J. HARVEY DAY.
ROCK-CRUSHING MILLS.

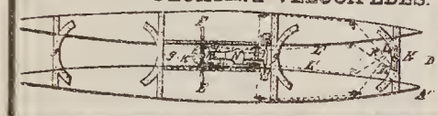


94,292. JOHN DECKER. COMBINED WEIGHING AND MEASURING-SCALE.

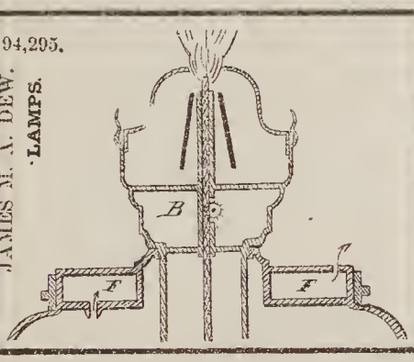


94,293. CLARENCE DELAFIELD.
FRANK G. JOHNSON.
RAILWAY-CAR WHEEL.

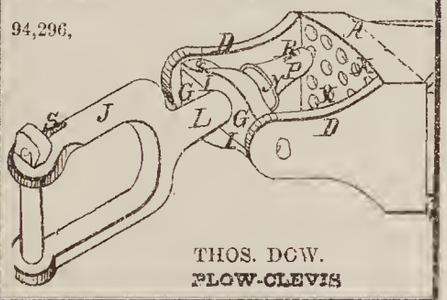
94,294. DE LA RUÉ.
FLOATING VELOCIPEDES.



94,295.
JAMES M. A. DEW.
LAMPS.

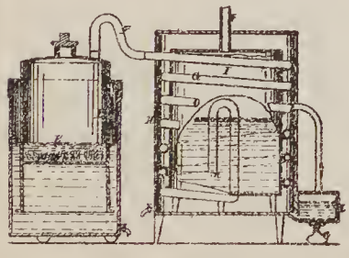


94,296,

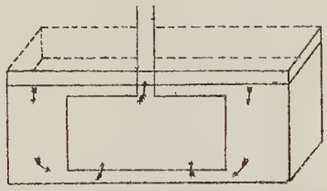


THOS. DOW.
PLOW-CLEVIS

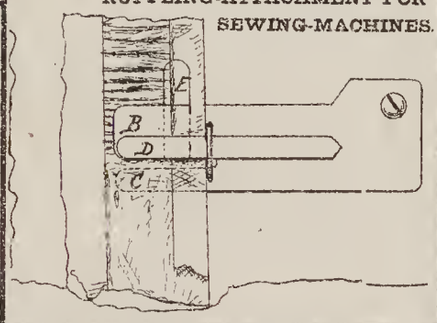
94,297, CLEAVELAND F. DUNDERDALE.
THE MANUFACTURE OF ILLUMINATING-GAS.



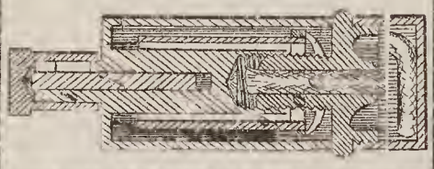
94,298, W. BANCROFT ESPENT.
PURIFYING SACCHARINE LIQUIDS, AND FOR CURING, DRYING, AND TREATING SUGAR AND OTHER MATERIALS.



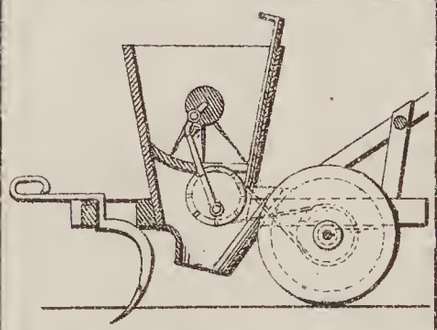
94,299, JNO. O. FAIRBAIRN.
RUFFLING-ATTACHMENT FOR SEWING-MACHINES.



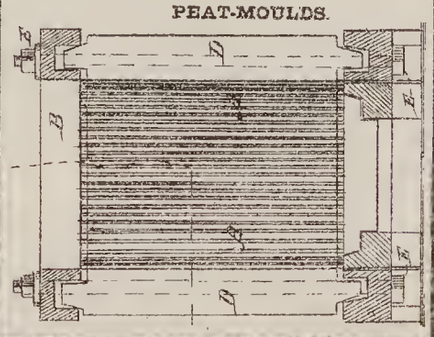
94,300, DANIEL B. H. BARTLETT.
POCKET-LAMPS.



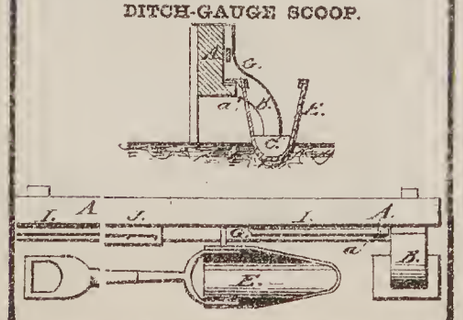
94,301, JOHN G. B. GILL.
COTTON-SEED AND CORN-PLANTER.



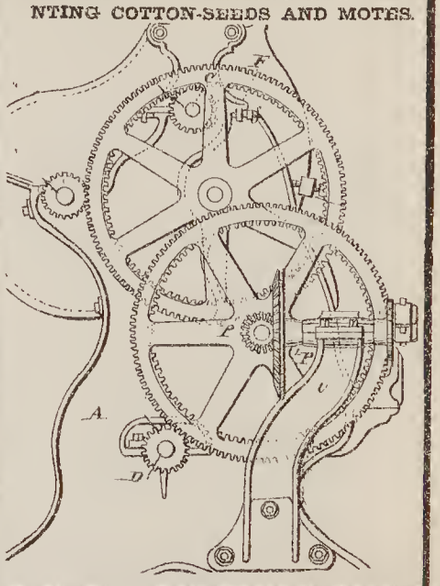
94,302, KINGSTON GODDARD.
PEAT-MOULDS.



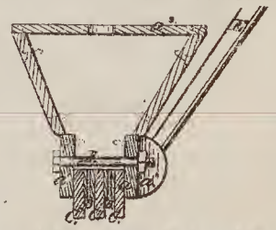
94,303, DAVID GORE.
DITCH-GAUGE SCOOP.



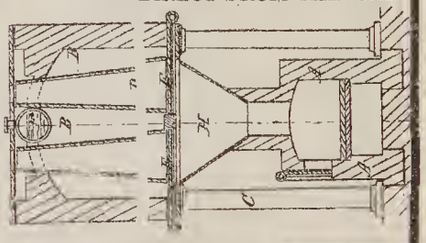
94,304, GEO. W. GRADER.
MACHINE FOR LINTING AND RELINTING COTTON-SEEDS AND MOTES.



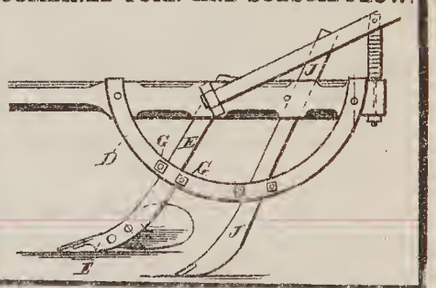
94,305, A. D. GRANGER.
SELF-WATERING SCRUBBER.



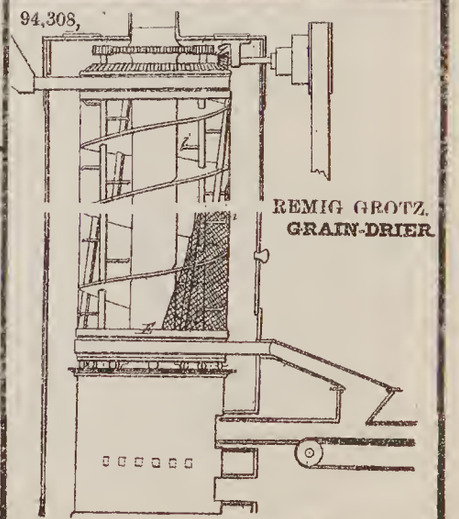
94,306, WILLIAM GRIFFITH,
FURNACE FOR PRODUCING IRON DIRECT FROM THE ORE.



94,307, J. C. GROSS.
COMBINED TURN AND SUBSOIL-PLOW.

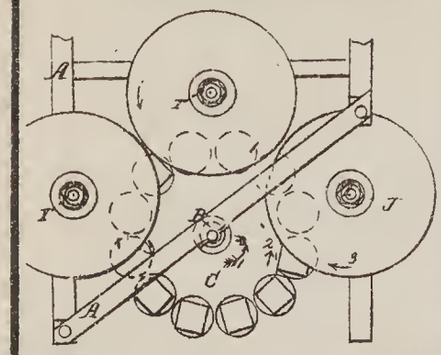


94,308,

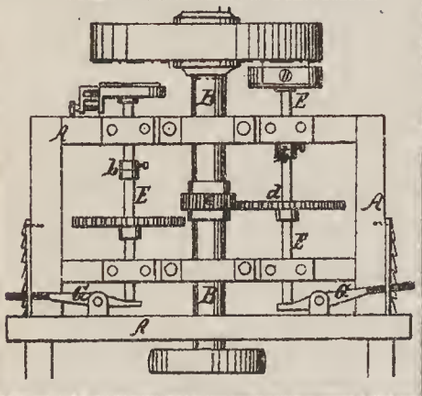


REMIG GROTZ.
GRAIN-DRIER.

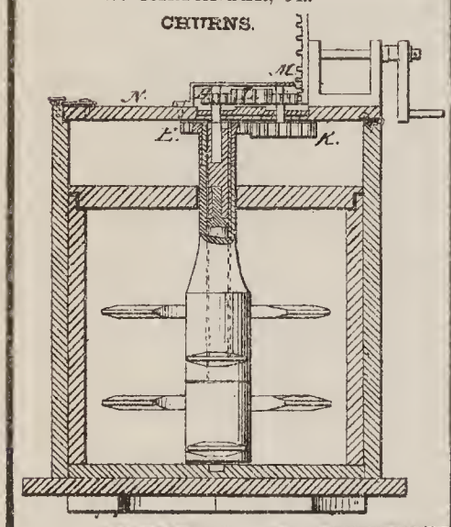
94,309, STINSON HAGAMAN.
SLATE-POLISHING MACHINE.



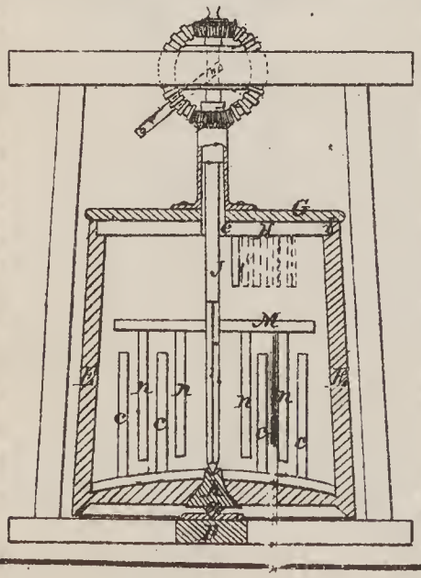
94,310, STINSON HAGAMAN.
SLATE-POLISHING MACHINE.



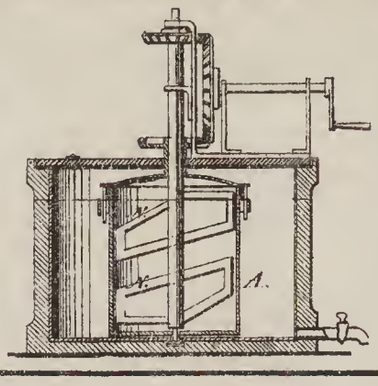
94,311, J. A. HAM.
W. CARPENTER, Jr.
CHURNS.



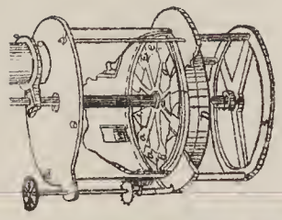
94,312, JACOB A. HANGER. **CHURNS.**



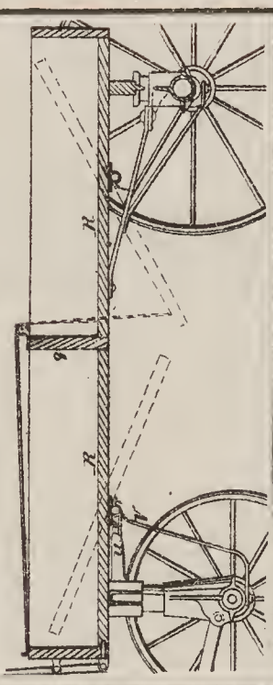
94,313, WILLIAM HAWKINS.
ICE-CREAM FREEZER.



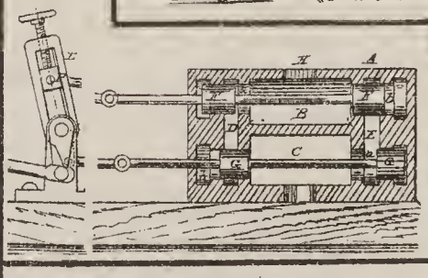
JACOB HEPPERLY.
WATER-WHEELS.
94,314,



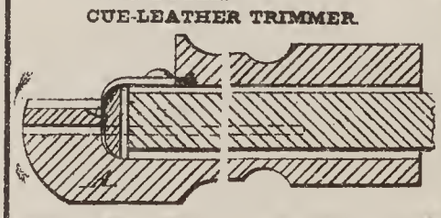
BRITAIN HOLMES.
DUMPING-WAGONS.
94,315.



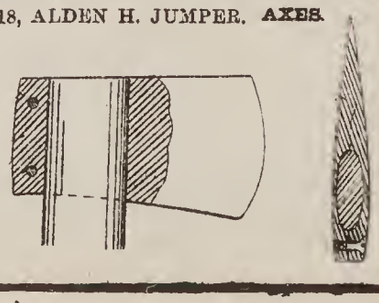
94,316, WM. H. INSLEE.
CHAS. L. INSLEE.
STEAM-ENGINE VALVE-GEAR.



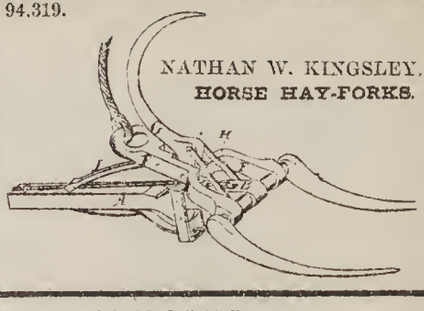
94,317, L. A. JOHNSON.
H. W. COLLENDER.
J. E. BOYLE.
CUE-LEATHER TRIMMER.



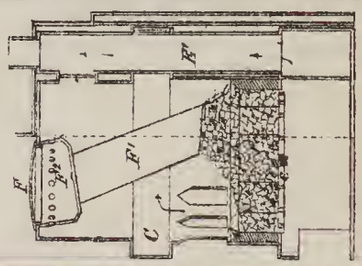
94,318, ALDEN H. JUMPER. **AXES.**



94,319.
NATHAN W. KINGSLEY.
HORSE HAY-FORKS.

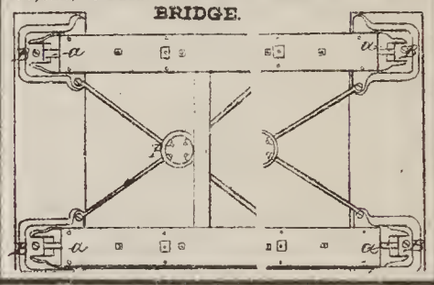


94,320, PHILIP KLOTZ.
BASE-BURNING FIRE-PLACE HEATER.

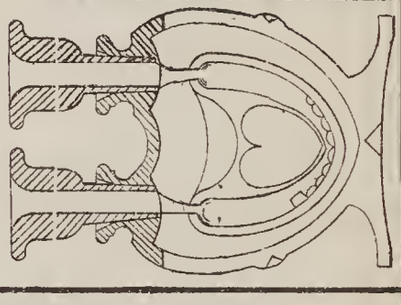


94,321, JOHN LAIRD. **BRIDGE.**

94,322, JOHN LAIRD. G. F. LAIRD.
BRIDGE.

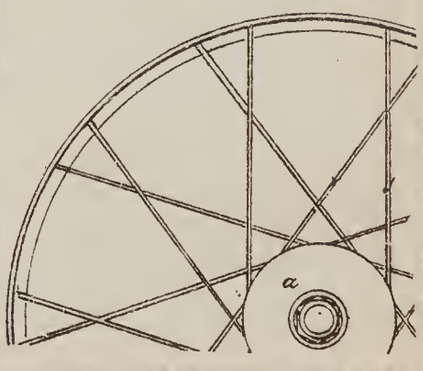


94,323, SAMUEL LAWRENCE. **FLASKS FOR CASTING DENTAL PLATES.**

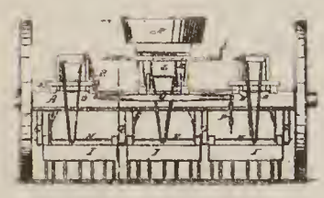


94,324, SAMUEL LAWRENCE.
COMPOSITION FOR MOULDS AND MODELS IN CASTING DENTAL PLATES AND OTHER ARTICLES.

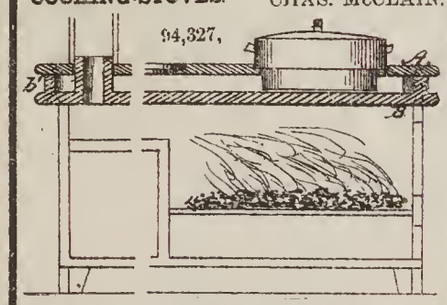
94,325, OBED LOOK.
CARRIAGE-WHEEL.



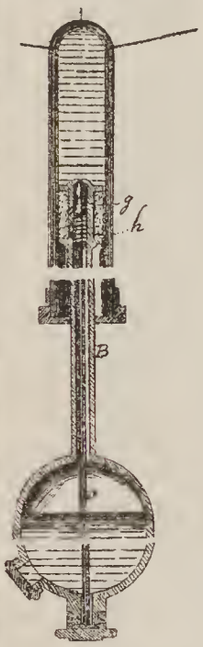
94,326. ISAAC LOW. **HARROWS.**



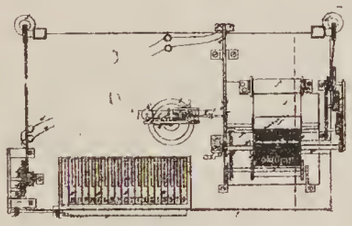
COOKING-STOVES. CHAS. McCLAIN.
94,327,



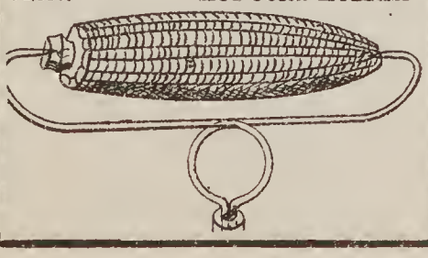
94,328,
J. F. McMILLEN.
SYRINGE.



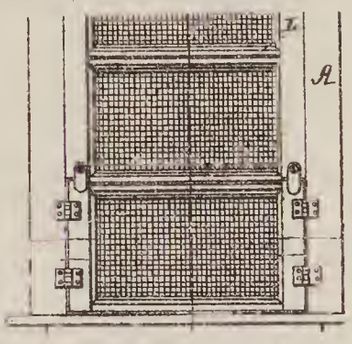
94,329, CHARLES T. MOORE.
PRINTING-TELEGRAPHS.



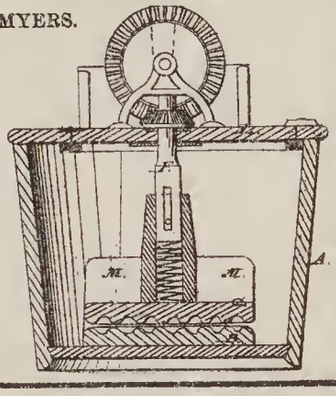
WM. A. MORGAN.
TOMPSON B. MOSHER.
94,330. **HOT-CORN HOLDER.**



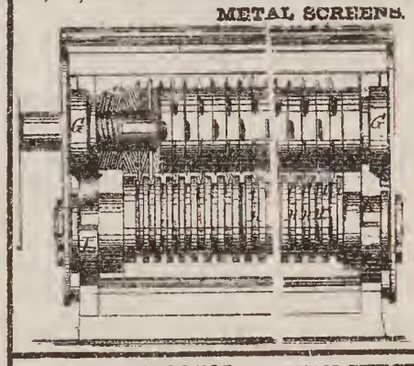
94,331. **DOUBLE WINDOW.**
STEPHEN, EARL OF MOUNT CASHELL.



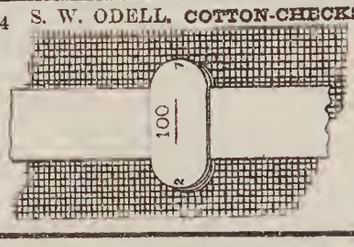
94,332, **WASHING-MACHINE.**
J. W. MYERS.



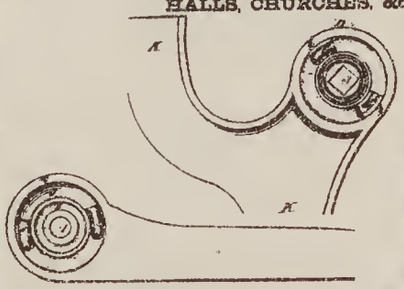
J. WELLINGTON NESMITH.
94,333, **MACHINE FOR PUNCHING METAL SCREENS.**



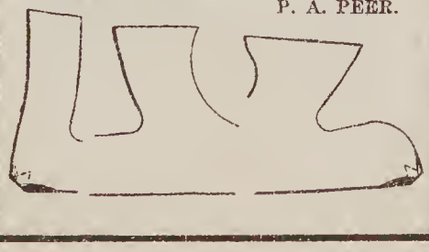
94,334 S. W. ODELL. **COTTON-CHECKS.**



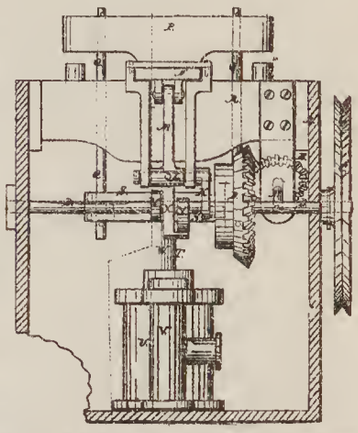
94,335, HARRISON OGBORN.
SEAT FOR SCHOOLS, HALLS, CHURCHES, &c.



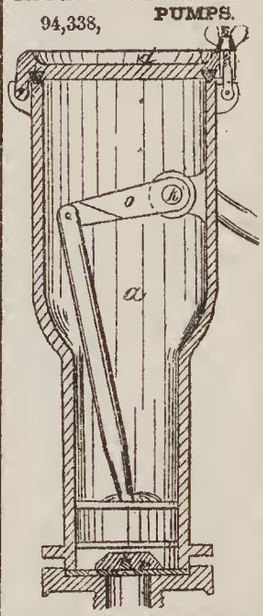
SKATE-RUNNER. 94,336.
P. A. PEER.



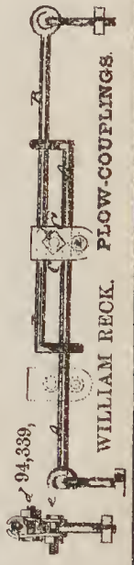
JULIUS FREDERICK MOORE POLLOCK.
94,337, **BRICK-MACHINE.**



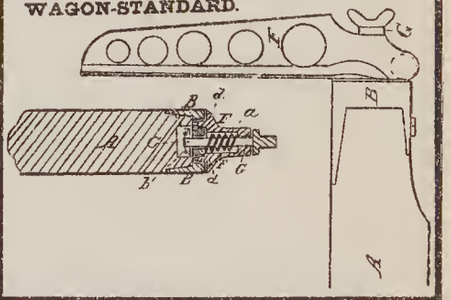
ALBERT M. PUTNAM.
94,338, **PUMPS.**



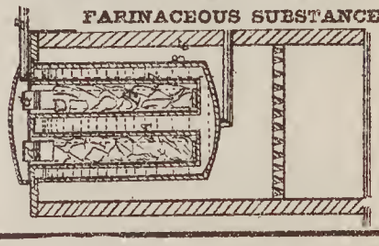
WILLIAM RECK. **PLOW-COUPLINGS.**
94,339,



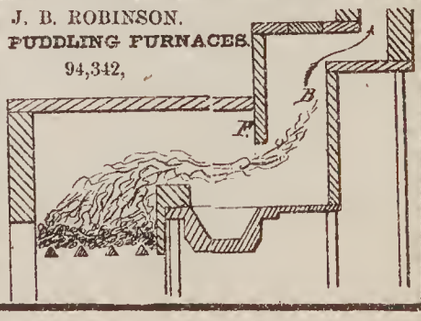
94,340, GEORGE RICHARDS.
WAGON-STANDARD.



94,341. JOHN JAMES RIDGE, M. D.
PROCESS AND APPARATUS FOR TREATING FLOUR, MEAL, AND OTHER FARINACEOUS SUBSTANCES.

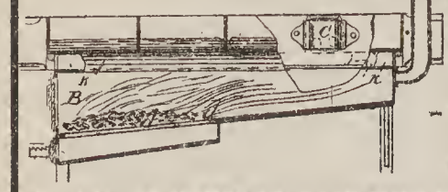


J. B. ROBINSON.
PUDDLING FURNACES.
94,342,



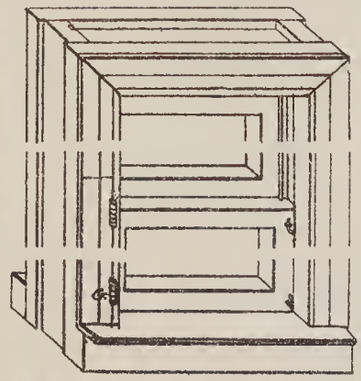
94,343. THOMAS SCANTLIN. JAMES M. SCANTLIN.

EVAPORATOR FOR SUGAR, AND OTHER LIQUIDS.



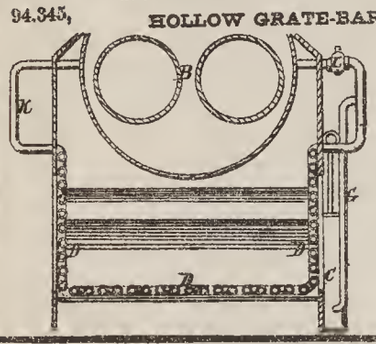
GEORGE SHATSWELL.

94,344, WINDOW.



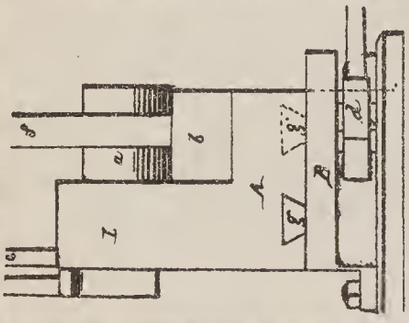
NOAH SHAW.

94,345, HOLLOW GRATE-BARS.



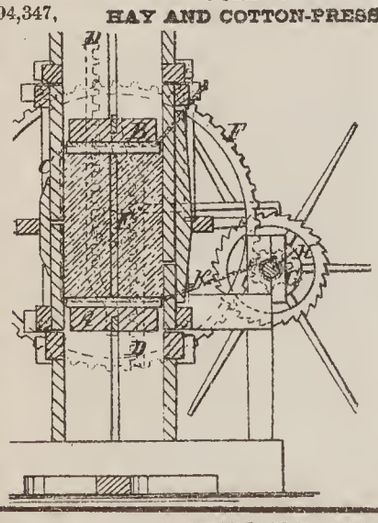
94,346, ELIAS SHOPBELL.

MACHINE FOR UPSETTING TIRE.



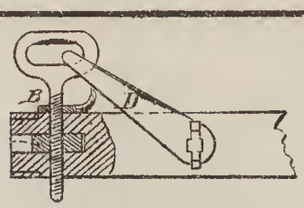
JOHN SIMPSON.

94,347, HAY AND COTTON-PRESSES.



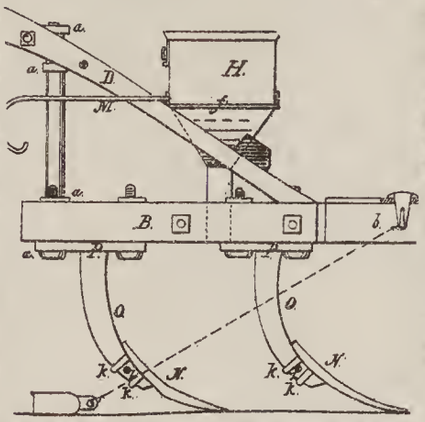
94,348, ZACHARIAH B. SIMS.

CLEVIS.



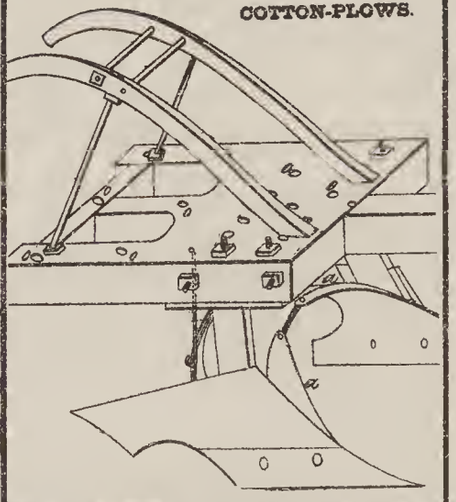
94,349, ZACHARIAH B. SIMS.

COTTON-PLOW AND PLANTER.



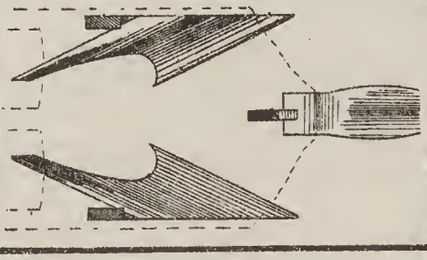
94,350, ZACHARIAH B. SIMS.

COTTON-PLOWS.



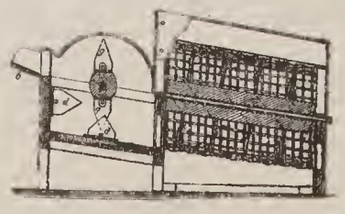
94,351, ZACHARIAH B. SIMS.

COTTON-PLOWS.



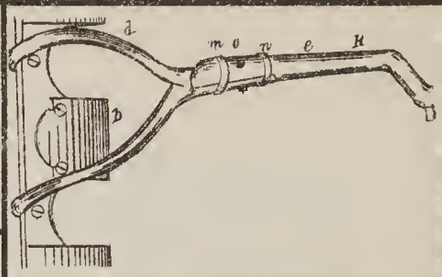
94,352, ZACHARIAH B. SIMS.

COTTON-PICKER AND CLEANER.



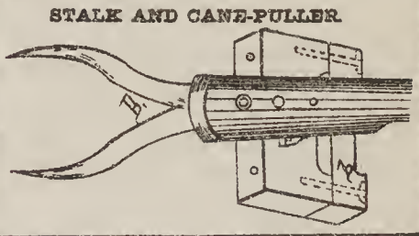
94,353, ZACHARIAH B. SIMS.

COTTON-HOE.



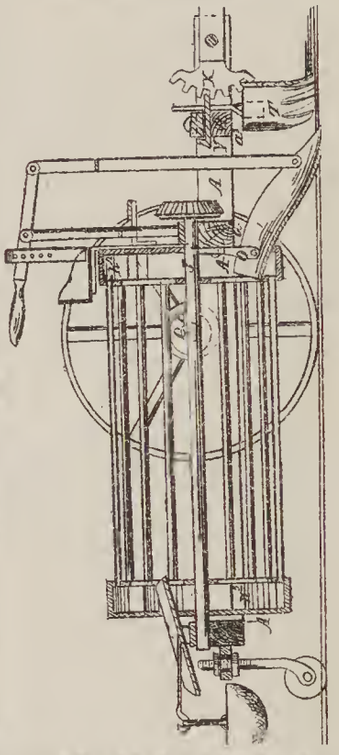
94,354, ZACHARIAH B. SIMS.

STALK AND CANE-PULLER.



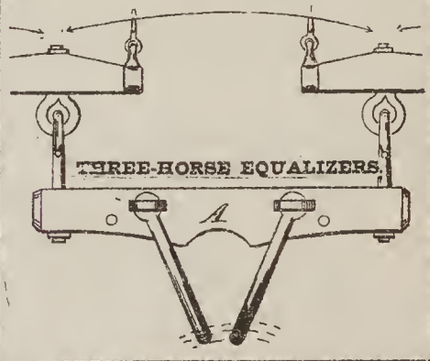
94,356, H. M. SMITH.

POTATO-DIGGER.



94,355, ZACHARIAH B. SIMS.

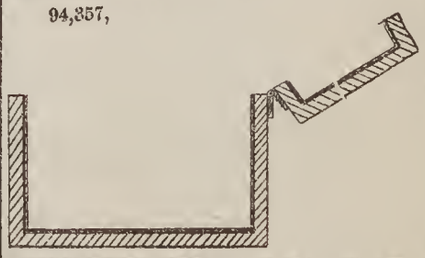
THREE-HORSE EQUALIZERS.



JOSEPH R. SMITH.

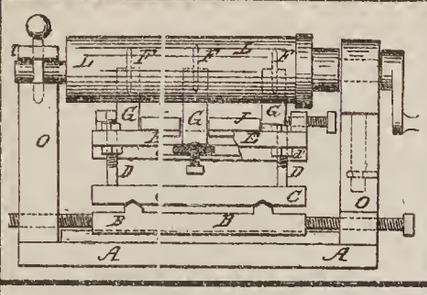
MOTH-PROOF LINING.

94,357,



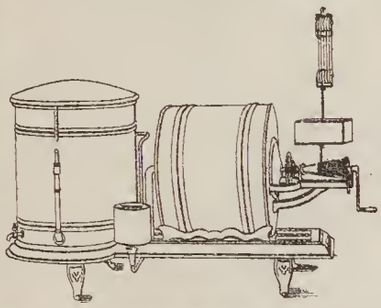
94,358. J. SPOONER. E. SPOONER.

TUBULAR PAPER-BOX CUTTERS.

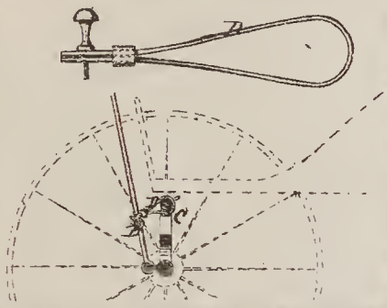


94,359. T. CHALKLEY TAYLOR. **MODE OF BLEACHING GRANULATED SUGAR.**

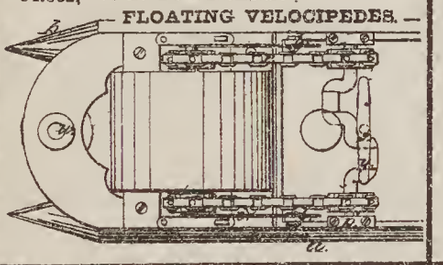
94,360. OAKES TIRRILL. **APPARATUS FOR CARBURETTING AIR AND GAS.**



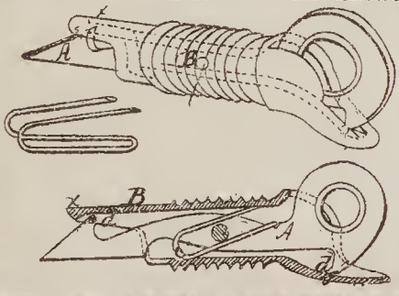
94,361. JAMES S. TOTTEN. **SHAFT AND POLE-HOLDER.**



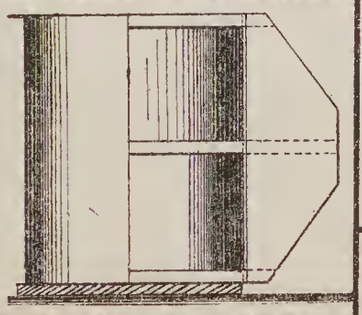
94,362. V. B. TOWNSEND. **FLOATING VELOCIPEDES.**



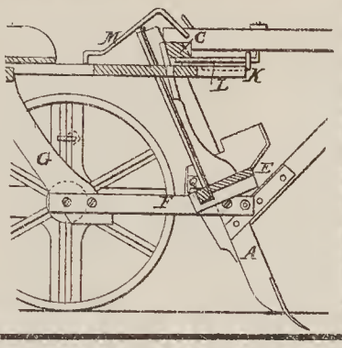
94,363. B. D. WASHBURN. **SHUTTER-FASTENING.**



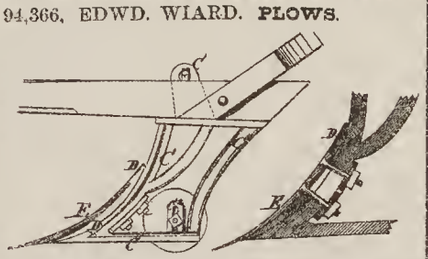
94,364. WILLIAM WASSALL. **APPARATUS FOR TURNING HEAVY CLAY PIPES.**



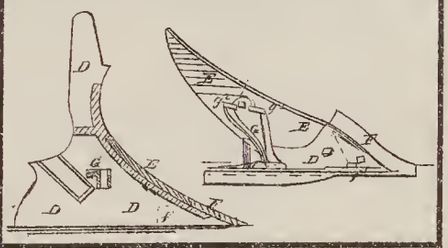
94,365. NICHOLAS WHITEHALL. **PLANTER AND CULTIVATOR.**



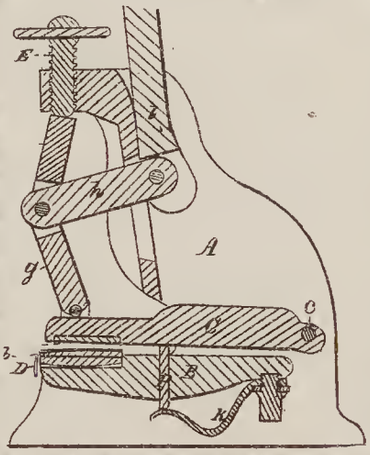
94,366. EDWD. WIARD. **PLOWS.**



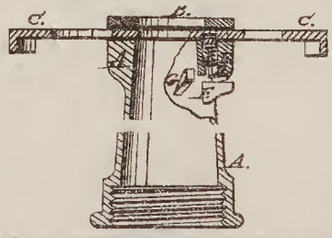
94,367. EDWARD WIARD. **PLOWS.**



94,368. J. M. WILLBUR. **EMBOSSING-PRESSES.**

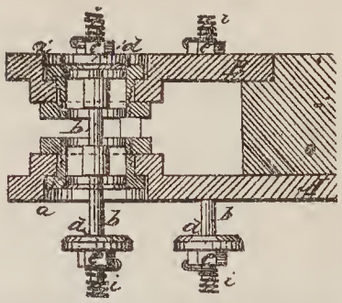


94,369. ARCHIBALD WILLISCROFT. **HOSE-PIPE NOZZLES.**

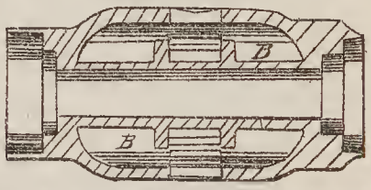


94,370. GEORGE W. WILSON. **MILLSTONE-BALANCE.**

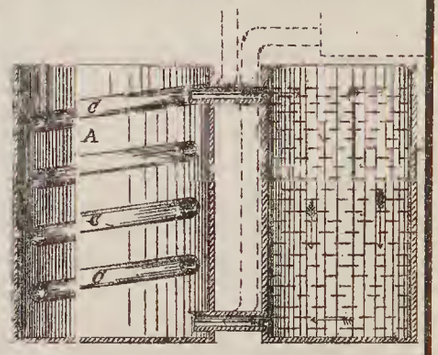
94,371. RICHARD WITTY. **STEAM-ENGINE PISTONS.**



94,372. A. S. WOODWARD. **CARRIAGE-HUB.**



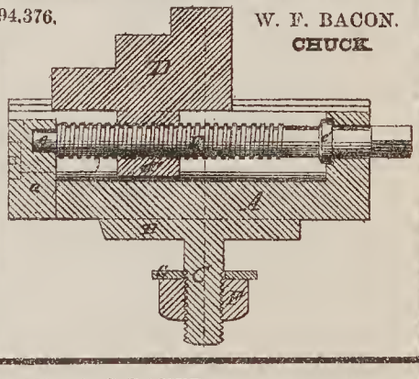
94,373. JOHN AGATE. **APPARATUS FOR COOLING AND REFRIGERATING.**



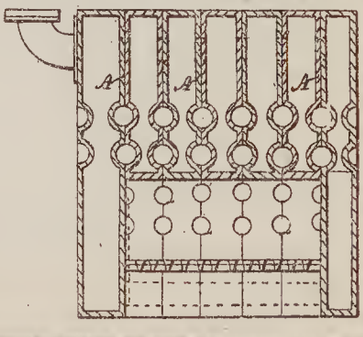
94,374. HENRY AITKEN. **ROASTING AND TREATING IRON-ORES.**

94,375. ERASTUS W. AYER. MELVILLE C. AYER. **ARTICLE OF FOOD FROM PUMPKINS AND SQUASHES.**

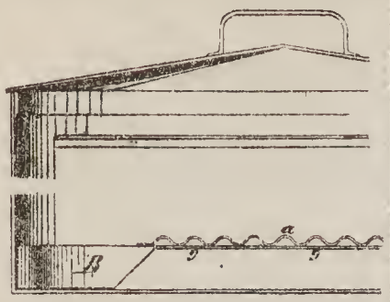
94,376. W. F. BACON. **CHUCK.**



94,377. A. C. BAKER. **STEAM-HEATER.**



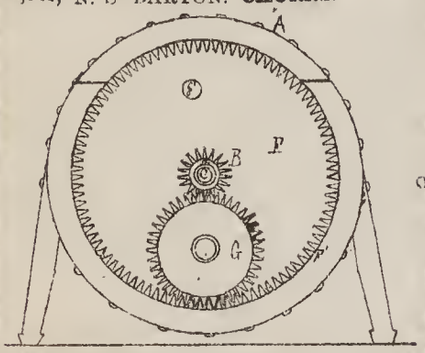
94,378, OREN BALDWIN. **WASH-BOILER**



94,379. JAMES M. BARRETT. **LINIMENT.**

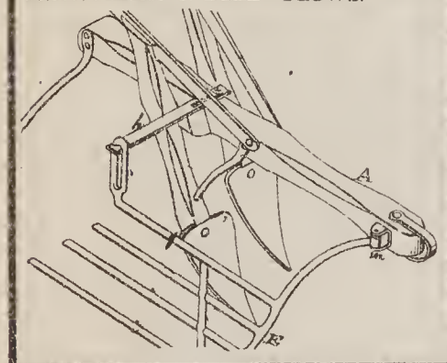
94,380, ORSON BARTLIT. **GLOVES.** GEO. D. EDSON.

94,381, N. S BARTON. **CHURNS.**

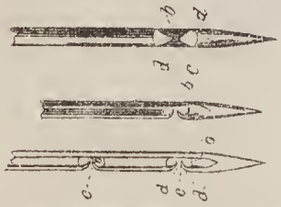


94,382, GEORGE BEATTY. **TOE-PLATE FOR BOOTS AND SHOES.**

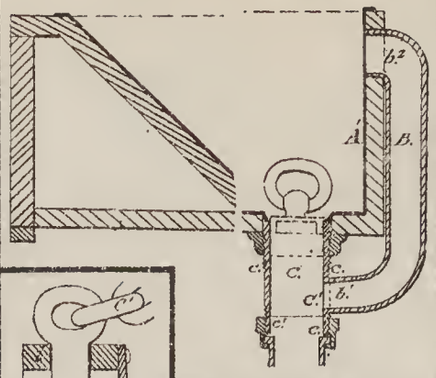
94,383, JAMES C. BELL **PLOWS.**



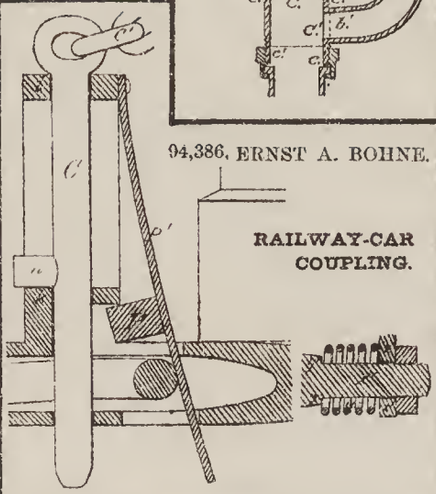
94,384, JOSEPH B. BLANCHARD. **NEEDLE FOR SEWING-MACHINE.**



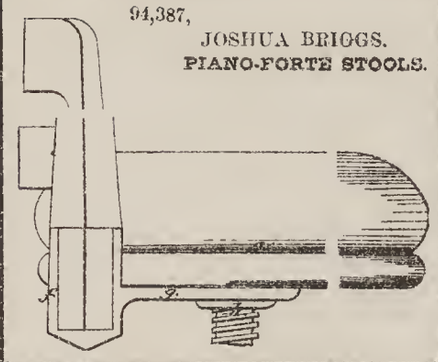
94,385, CHAS. A. BLESSING. **BATH-TUBS.**



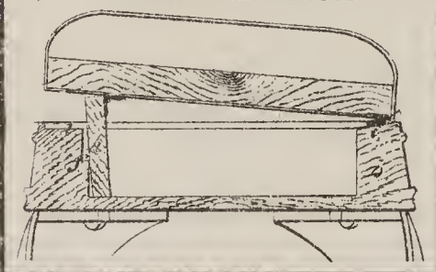
94,386. ERNST A. BOHNE. **RAILWAY-CAR COUPLING.**



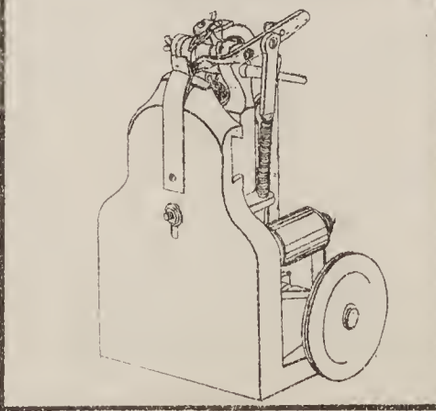
94,387, JOSHUA BRIGGS. **PIANO-FORTE STOOLS.**



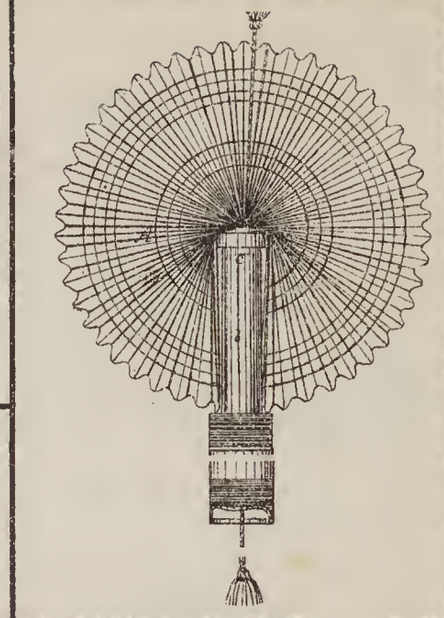
94,388. JOSHUA BRIGGS. **OTTOMAN PIANO-STOOL.**



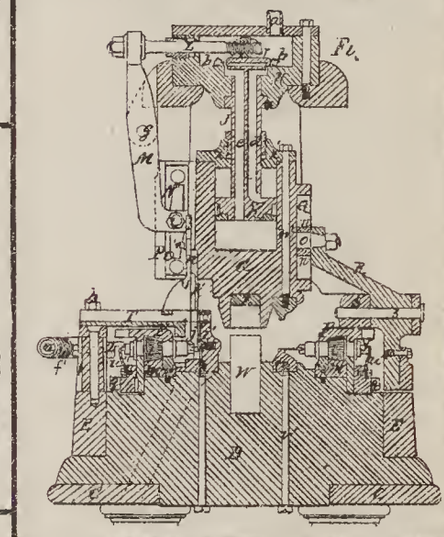
94,389. JOHN H. BROWN. **SEWING-MACHINE FOR SEWING BOOTS AND SHOES.**



94,390, OTTO BRÜCK. **PANS**

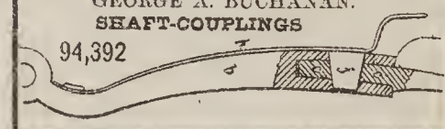


94,391, E. L. BRUNDAGE. **MAKING HORSESHOE-NAILS.**

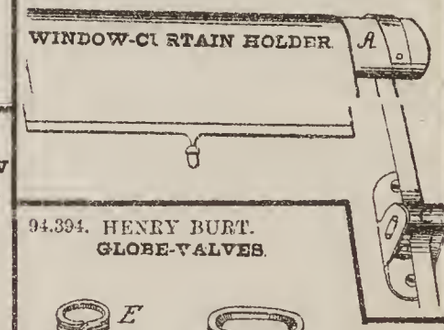


GEORGE A. BUCHANAN. **SHAFT-COUPLINGS**

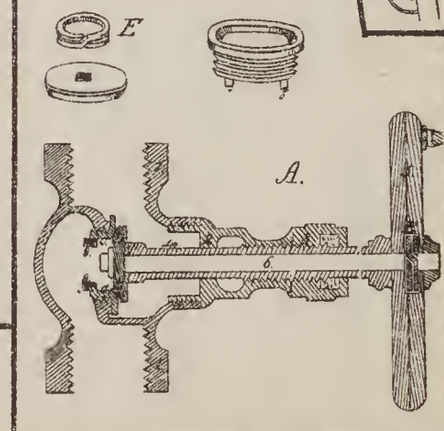
94,392



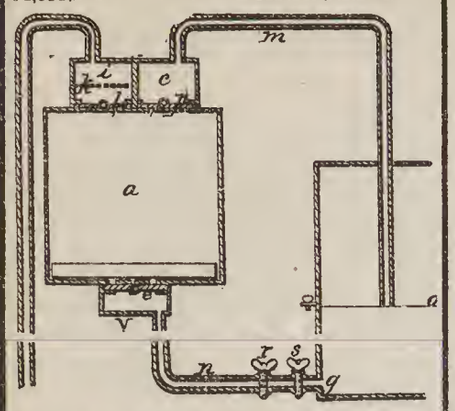
94,393, J. S. BURCH. J. O. BURCH. **WINDOW-CURTAIN HOLDER.**



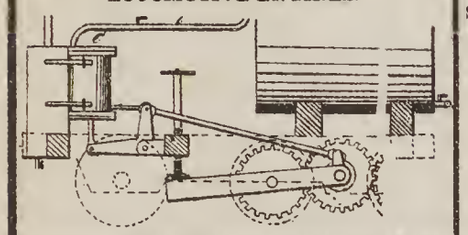
94,394. HENRY BURT. **GLOBE-VALVES.**



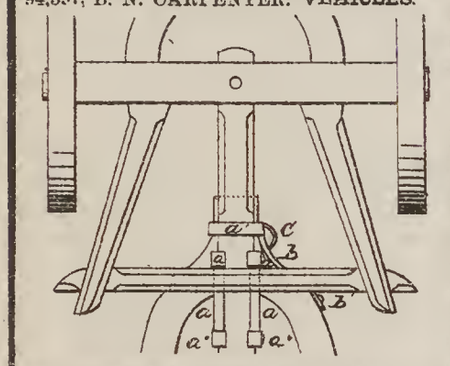
94,395, HENRY BURT. **BOILER-FEEDER.**



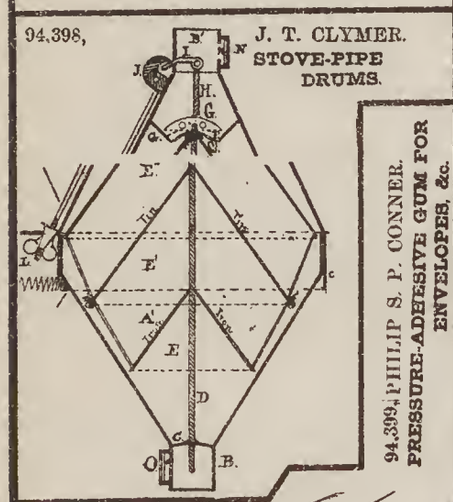
94,396, CHARLES W. CAHOON. **LOCOMOTIVE-ENGINES.**



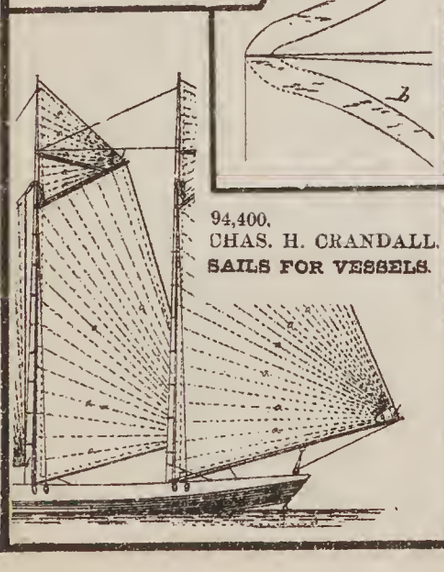
94,397, B. N. CARPENTER. **VEHICLES.**



94,398, J. T. CLYMER. **STOVE-PIPE DRUMS.**

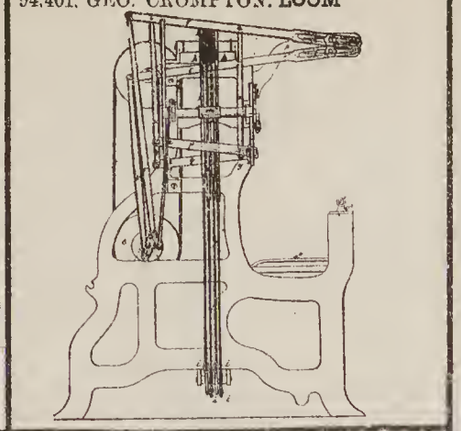


94,399, PHILIP S. P. CONNER. **PRESSURE-ADHESIVE GUM FOR ENVELOPES, &c.**

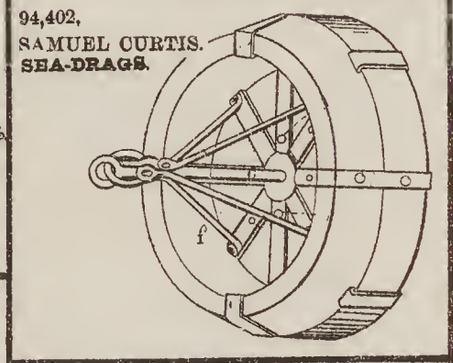


94,400, CHAS. H. CRANDALL. **SAILS FOR VESSELS.**

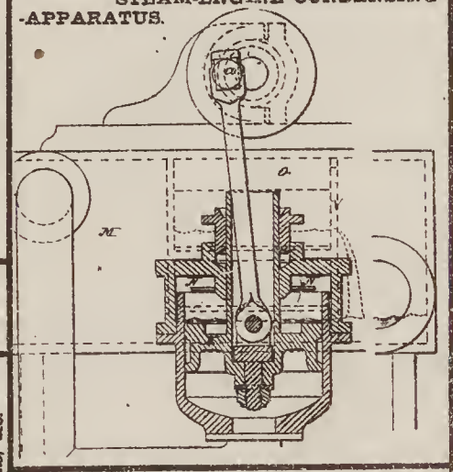
94,401, GEO. CROMPTON. **LOOM**



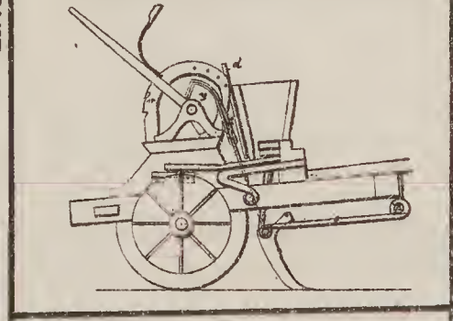
94,402, SAMUEL CURTIS. **SEA-DRAGS.**



94,403. CORNELIUS H. DE LAMATER. **STEAM-ENGINE CONDENSING-APPARATUS.**

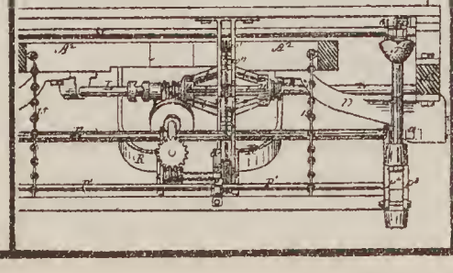


94,404, GEORGE W. DICKINSON. **CORN-PLANTER AND GRAIN-DRILL.**

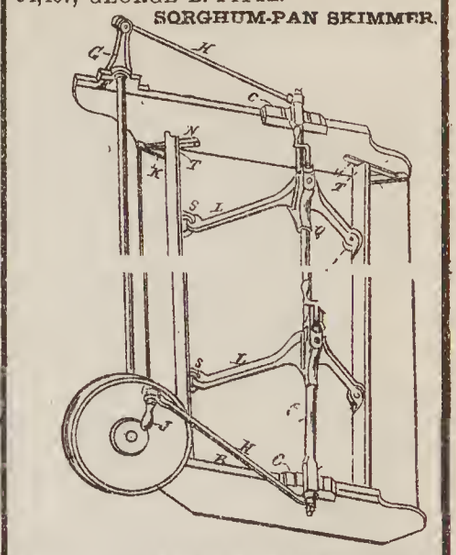


94,405, GEO. W. DOTY. **COMPOUND TO BE APPLIED TO FRUIT-JARS FOR RECEIVING WRITTEN LABELS.**

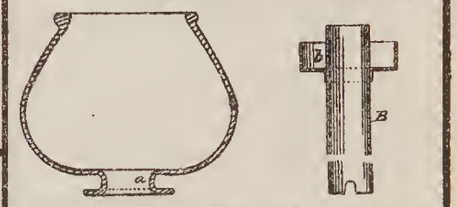
94,406, SAML. M. FIREY. **SEEDER AND FERTILIZER COMBINED.**



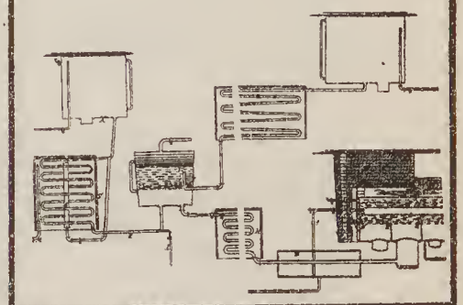
94,407, GEORGE B. FITTZ. **SORGHUM-PAN SKIMMER.**



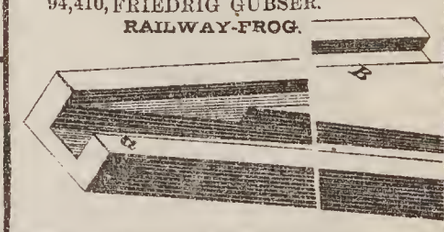
94,408, GREG. GERDOM. **FASTENING METAL TUBES TO GLASS CUPS OR VESSELS.**



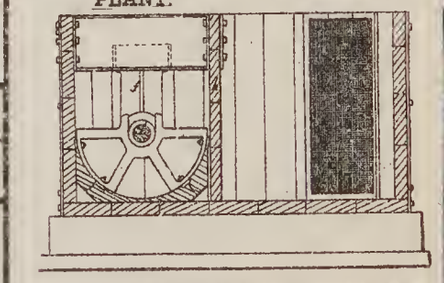
94,409. HENRY GROGAN. **STILL.**



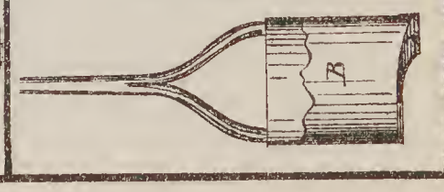
94,410, FRIEDRIG GÜBSER. **RAILWAY-FROG.**



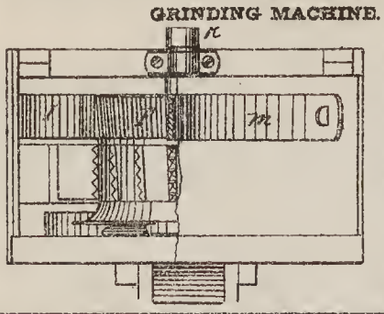
94,411. JOHN T. HARRIS. **MODE OF OBTAINING FIBRE AND OTHER PRODUCTS FROM THE MAIZE PLANT.**



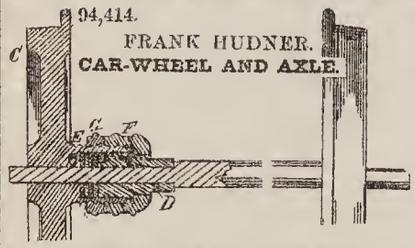
94,412, IRA HART. **POST-HOLE AUGER.**



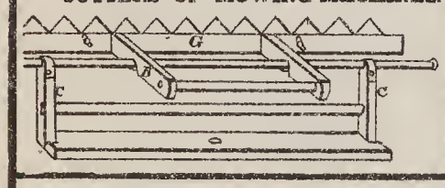
94,413, JAMES T. HARVEY.
VEGETABLE-CUTTER AND FEED-GRINDING MACHINE.



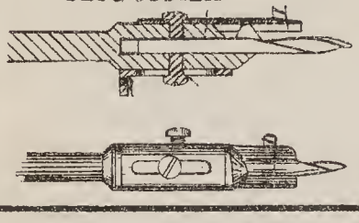
94,414. FRANK HUDNER.
CAR-WHEEL AND AXLE.



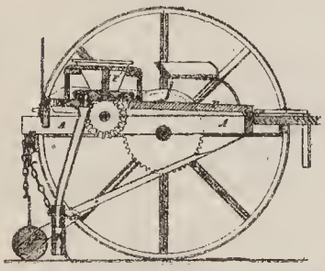
94,415. D. W. JAMESON.
MACHINE FOR GRINDING THE CUTTERS OF MOWING-MACHINES.



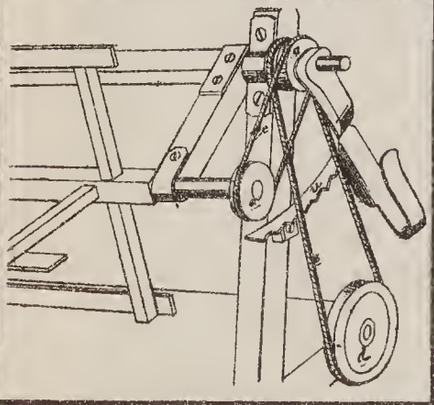
94,416, MELVIN JINCKS.
PLUG-CUTTER.



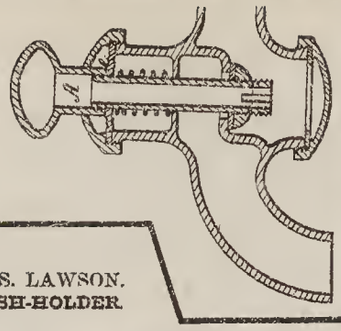
94,417, JAMES A. JOHNSON.
CORN-PLANTER.



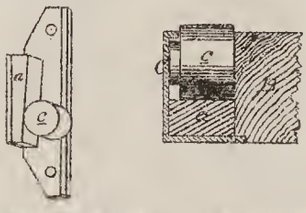
94,418, JOHN H. KELLER.
REEL FOR REAPING-MACHINES.



94,419. HENRY F. KING.
SELF-CLOSING FAUCETS.

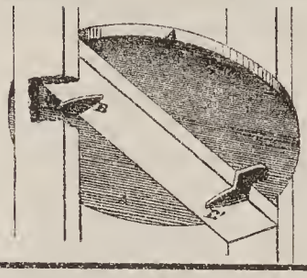


94,420,
BENJ. S. LAWSON.
SASH-HOLDER.

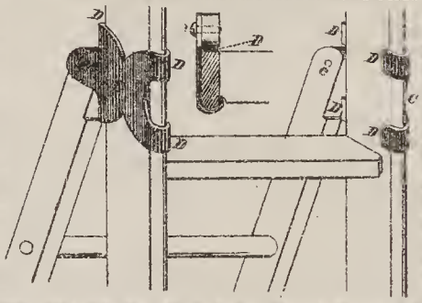


94,421, JOHN C. LOVE.
LAMP-BURNERS.

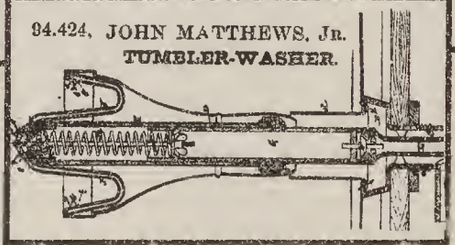
94,422, WILLIAM E. LUDLOW.
BASKET-REST FOR LADDERS.



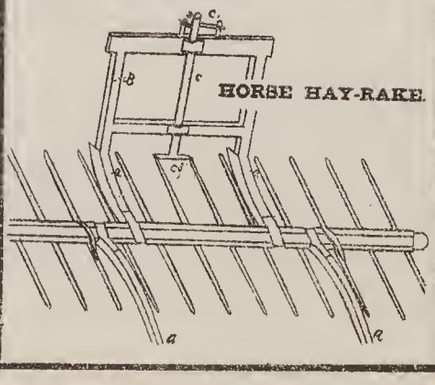
94,423, WILLIAM E. LUDLOW.
STEP AND EXTENSION-LADDER.



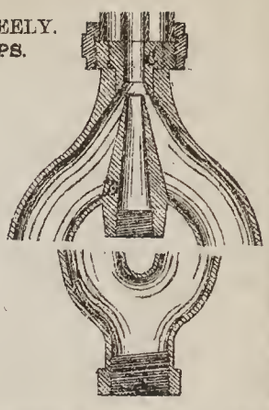
94,424, JOHN MATTHEWS, Jr.
TUMBLER-WASHER.



94,425, WM. MATTHEWS.
HORSE HAY-RAKE.

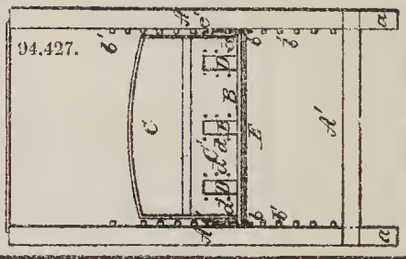


94,426,
GEORGE McFEELY.
STEAM-PUMPS.



WILLIAM McLUCAS.
SAD-IRON HEATER-OVENS.

94,427.

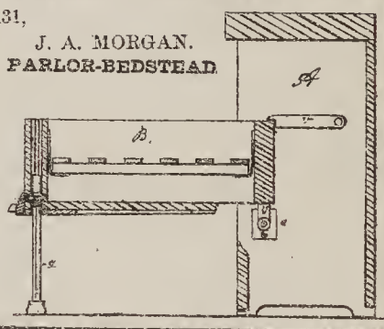


94,428, ANSON O. McMAHAN.
COMPOUND FOR CURING CHOLERA IN HOGS AND CHICKENS.

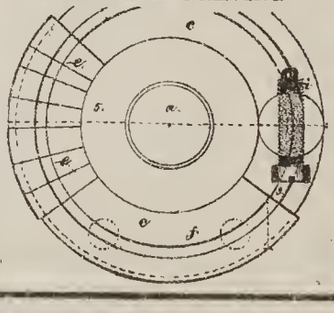
94,429, J. VAUGHAN MERRICK.
W. H. MERRICK.
HOISTING-APPARATUS.

94,430, JAMES A. METCALF. OILERS.

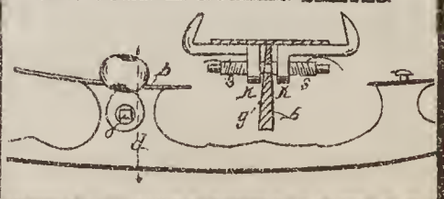
94,431,
J. A. MORGAN.
PARLOR-BEDSTEAD.



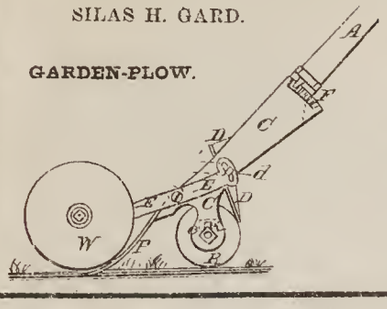
94,432, ROBERT NEALE.
TRANSFER ENGRAVING.



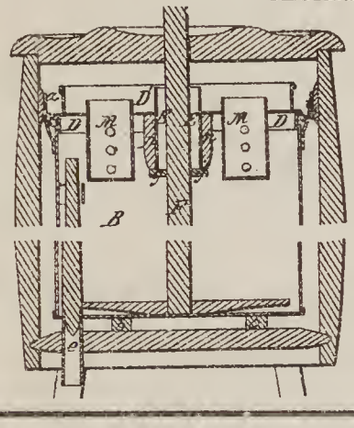
94,433, JOHN H. NOAKES. SKATES.



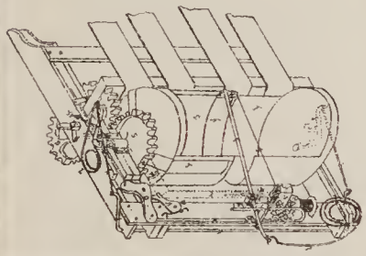
94,434, WASHINGTON F. PAGETT.
SILAS H. GARD.
GARDEN-PLOW.



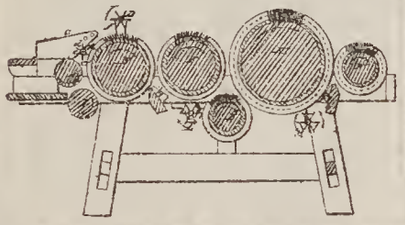
94,435, GEO. N. PALMER.
CHURNS.



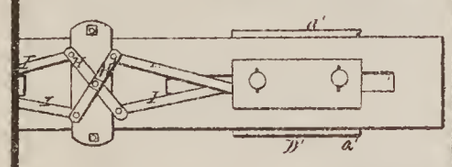
94,436, L. F. PARKER
GRAIN-BINDERS.



94,437. ZIBA PARKHURST. MACHINE FOR BURRING AND CLEANING WOOL.



94,438, CYRUS PHELON. OX-YOKES.



94,439, DAVID R. QUICK.
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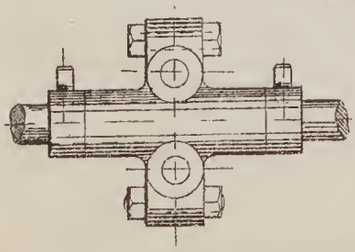

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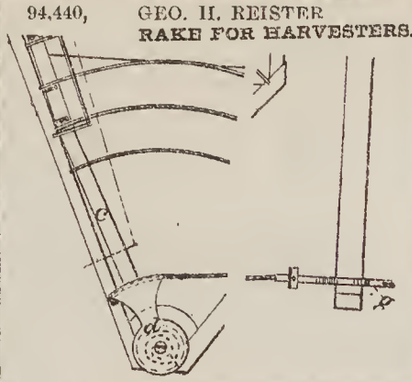

94,441, HENRY REYNOLDS.
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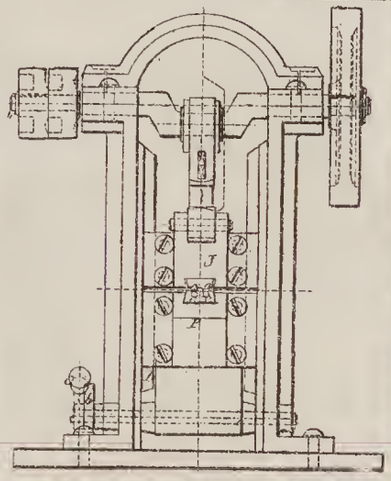

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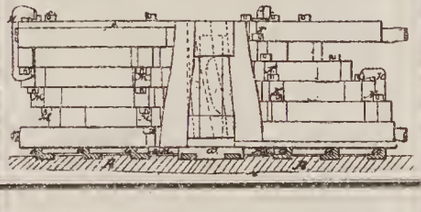

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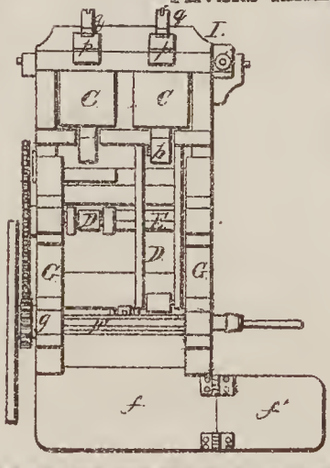

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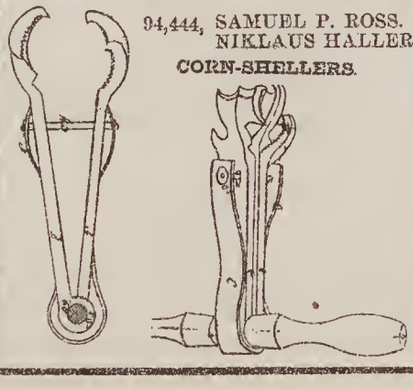

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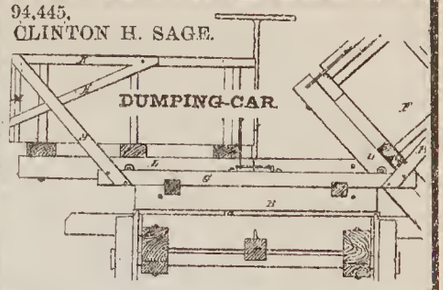

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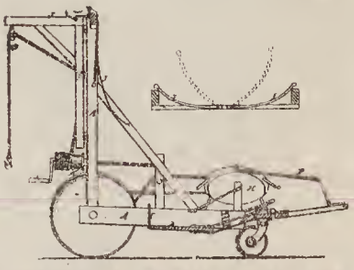

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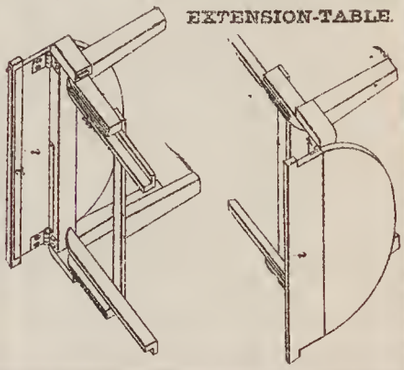

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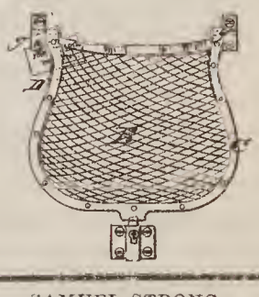

94,449, SAMUEL STRONG.
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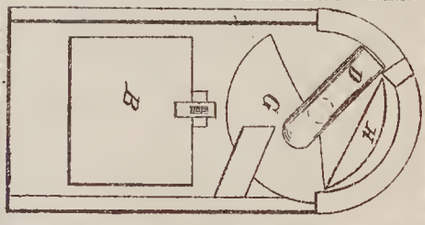

94,450, A. H. TAIT.
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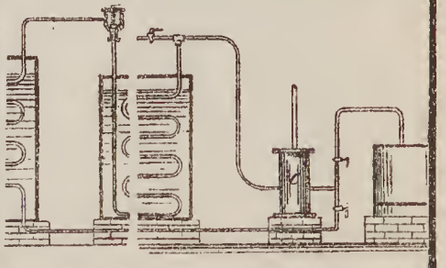

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H. D. BRADLEY.
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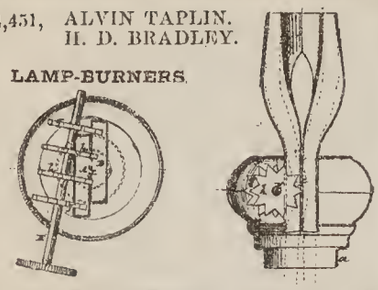

94,452, W. S. THOMPSON.
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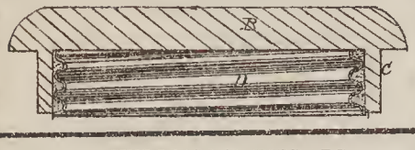

94,453, WILLIAM T. TIBBALS.
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94,454,
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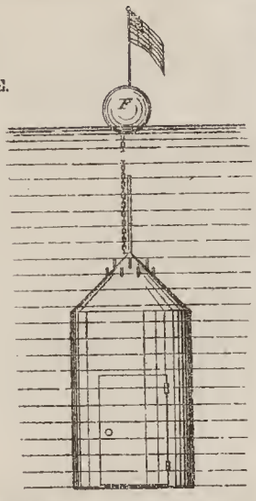

94,455, AMBROSE I. UPSON.
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94,456 ELISHA WALKER.
JOSIAH J. PIATT.
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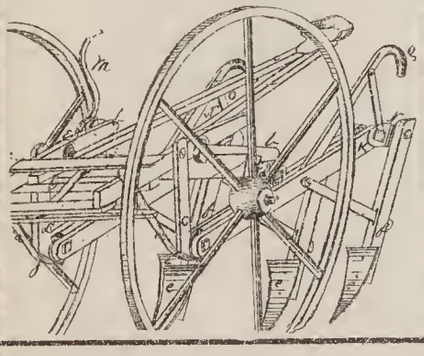

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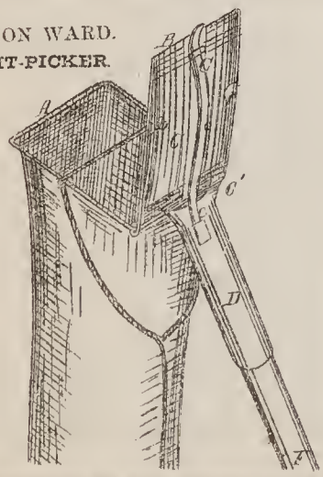
EDEMON WARD.
FRUIT-PICKER.



94,458, W. G. WARD.
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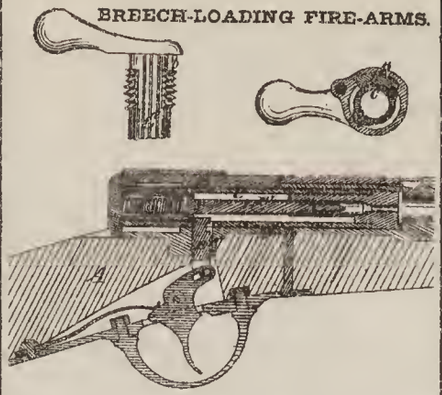

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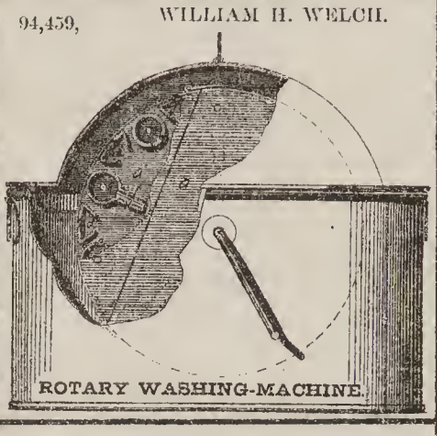

ROTARY WASHING-MACHINE.

94,460, DENNISON WILLARD.
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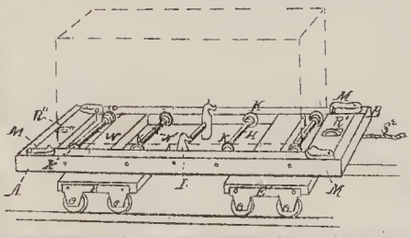
94,461. **RAILWAY FREIGHT-CARS.**



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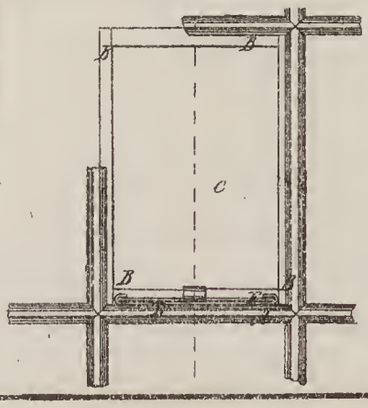
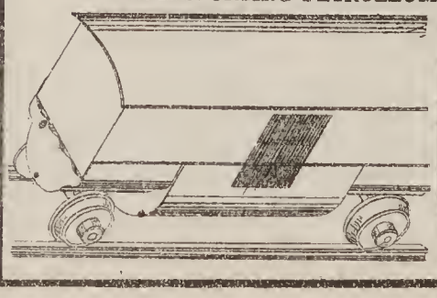
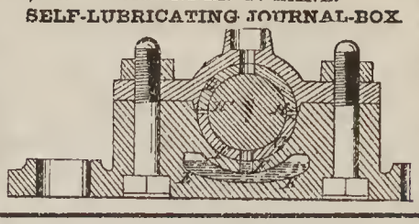


3,622, JOEL F. KEELER.
RAILROAD-CARS FOR TRANSPORTING PETROLEUM.



3,623. PHILANDER P. LANE.
SELF-LUBRICATING JOURNAL-BOX.



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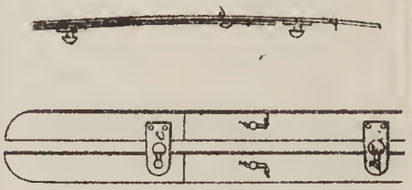
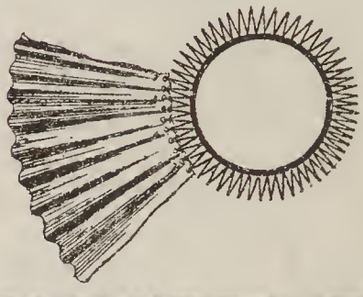


3,625. GEORGE H. DIMOND.
GEORGE DOOLITTLE.
THOS. WALLACE, JR.
LAMP-SHADES



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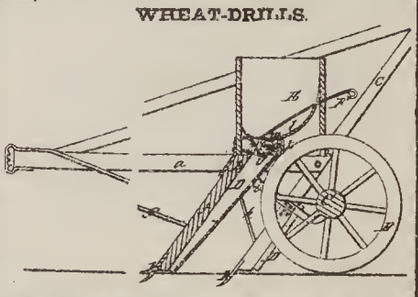
WHEAT-DRILLS.



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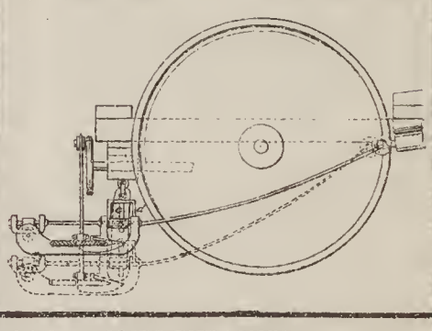

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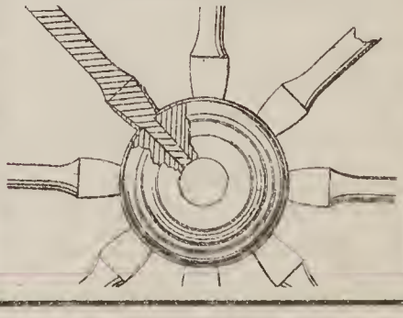

3,629, KATE LOWE. WM. McTEER.
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ILLUSTRATIONS OF PATENTS

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94,463, A. AUBERT.
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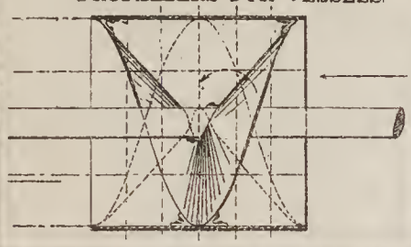

94,464. FRANKLIN P. BAKER.
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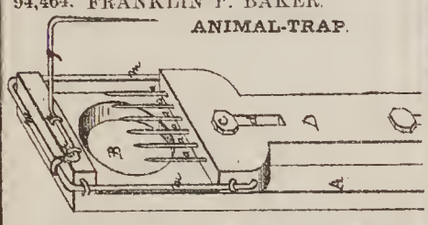

94,465, JAMES BAKER.
COMPOSITION FOR WHITEWASHING.

94,466, MOSES BECKER.
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94,467, N. P. BRADISH.
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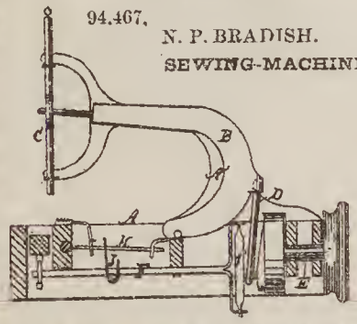

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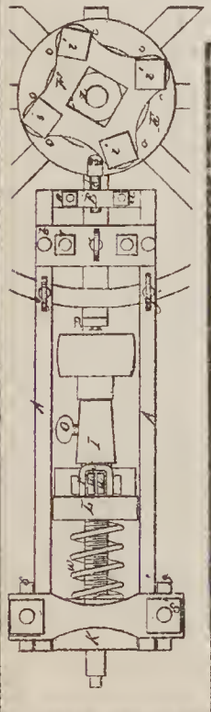

94,469. HENRY L. BROWN.
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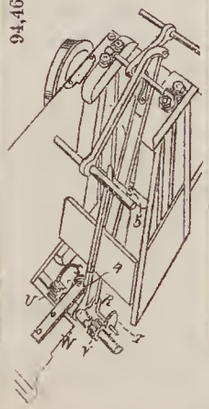

94,470. ELISHA S. BURLINGAME
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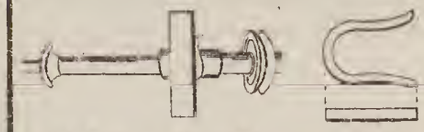

94,471, JOHN BURT.
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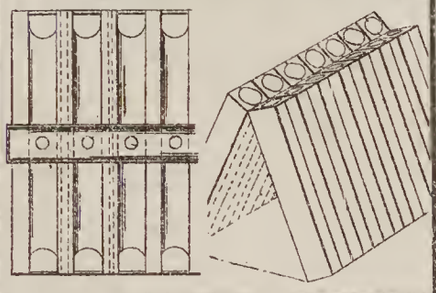

94,472. HENRY W. CAREW.
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94,473. AARON CHANDLER.
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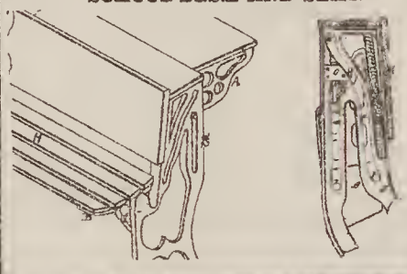

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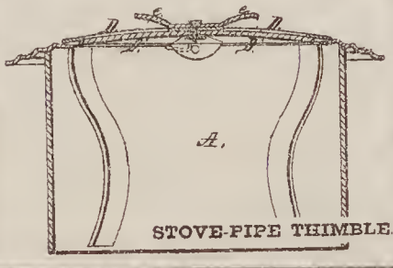

STOVE-PIPE THIMBLE.

94,475, CHAS. H. COLLINS, W. R. McCLURE.
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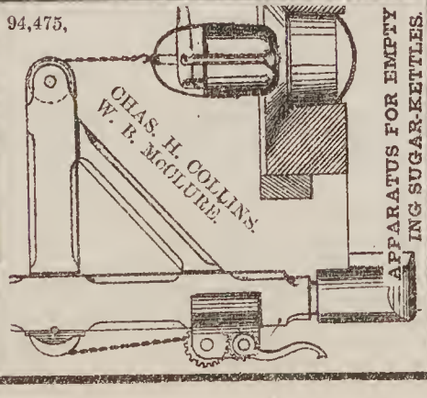

94,476, JOSEPH W. CREMIN.
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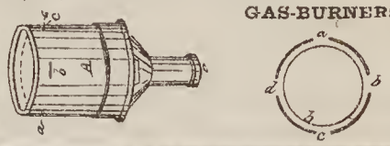

94,477, LUTHER C. CROWELL.
STOVE-POLISHING BRUSH.

94,478, N. C. DAWSON.
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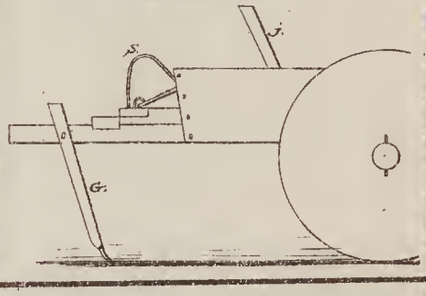

94,479. FRANK W. DE SPESSBOURG.
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94,480. NORMAN EATON.
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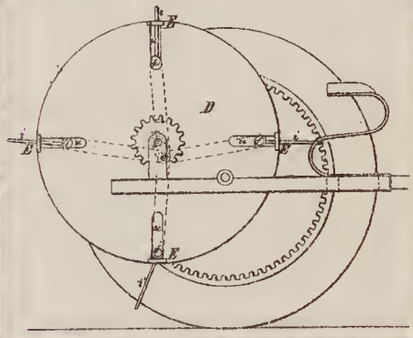

94,481. E. ENETE.
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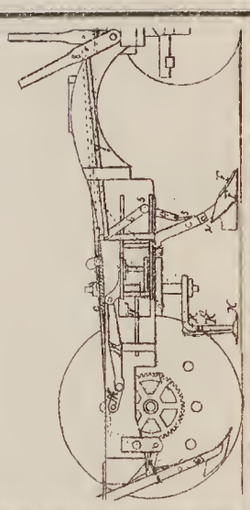
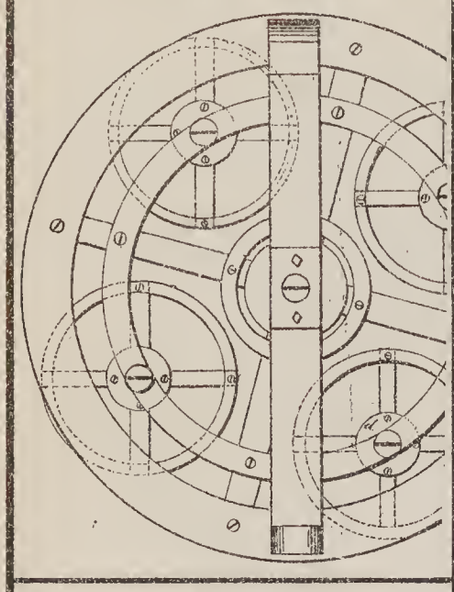
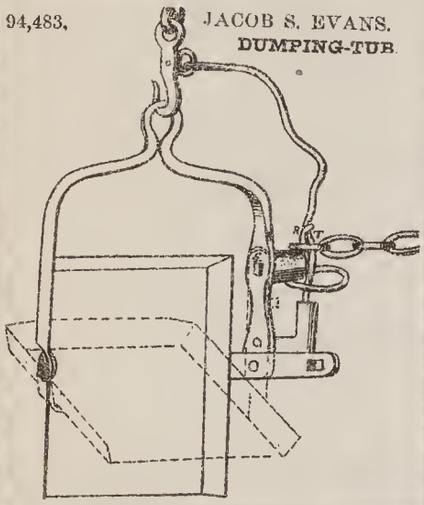


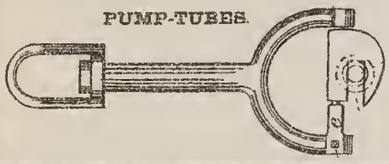
94,482, WM. A. ESTES.
REVOLVING CULTIVATORS.



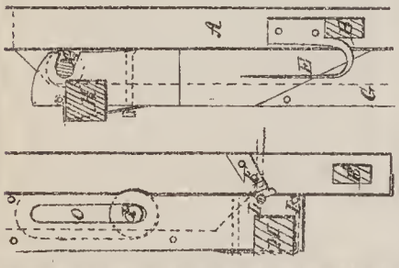
94,483, JACOB S. EVANS.
DUMPING-TUB.

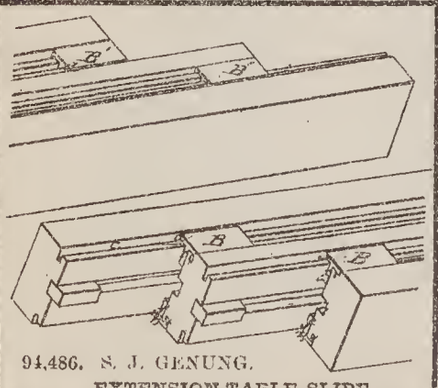


94,484, JAMES A. FLEMING.
WRENCHES FOR ELEVATING PUMP-TUBES.



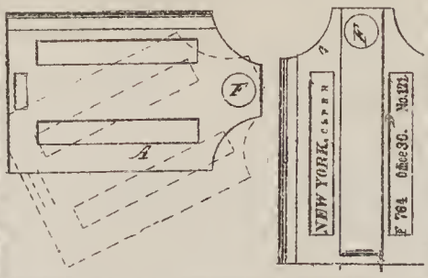
94,485, DAVID S. GARDNER.
DUMPING-WAGONS.



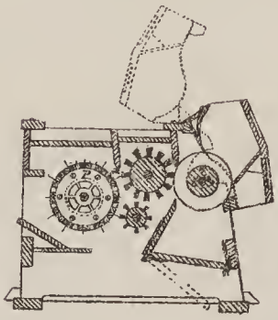


94,486, S. J. GENUNG.
EXTENSION-TABLE SLIDE.

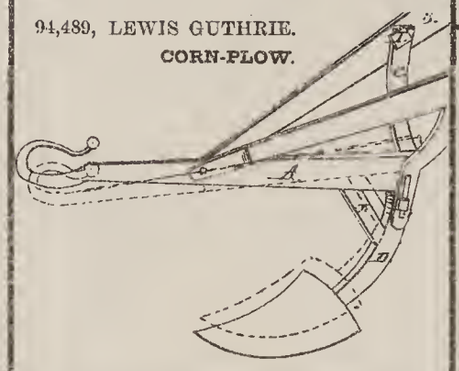
94,487, EDWARD H. GRAVES.
FOLDING BAGGAGE-CHECK



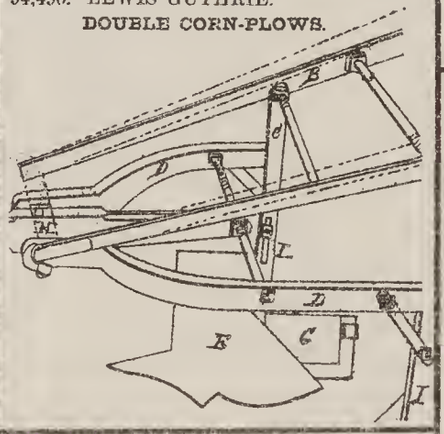
94,488, B. D. GULLETT. **COTTON-GINS.**



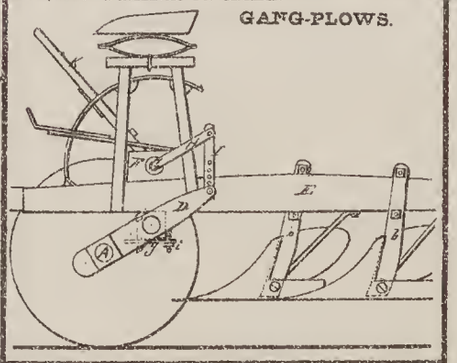
94,489, LEWIS GUTHRIE.
CORN-PLOW.



94,490. LEWIS GUTHRIE.
DOUBLE CORN-PLOWS.



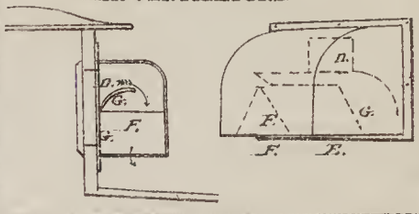
94,491. FRANK A. HILL.
GANG-PLOWS.



94,492. GEORGE JAMES HINDE.
IMPROVEMENT IN COATING IRON OR STEEL WITH COPPER OR BRASS, OR OTHER ALLOYS OF COPPER.

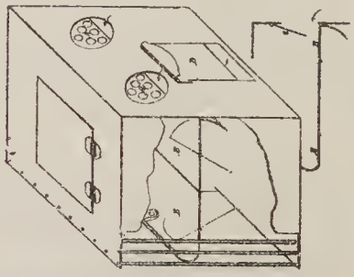
94,493, BENJA. HINKLEY.
ROOFING-MATERIAL.

94,494, R. HITCHCOCK.
CAR-VENTILATORS.

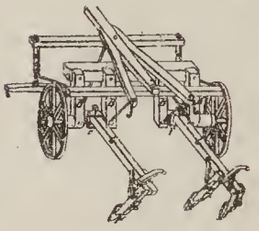


94,495, GEORGE E. HOPKINS.
PLASTIC CEMENT.

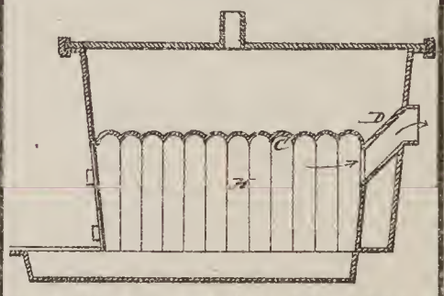
94,496, JOHN HUGHSON.
ANIMAL-TRAP.



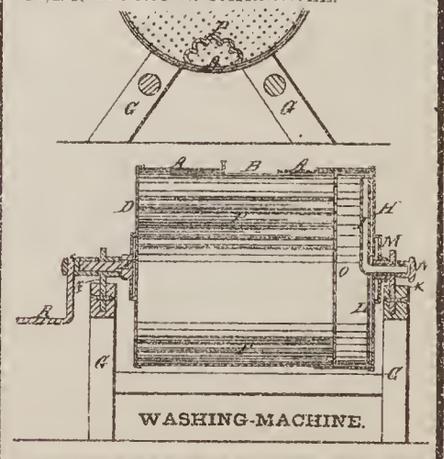
94,497. JOHN LUETH. **CULTIVATORS.**



94,498, ADIN T. MANLY.
STEAMER FOR AGRICULTURAL AND OTHER PURPOSES.

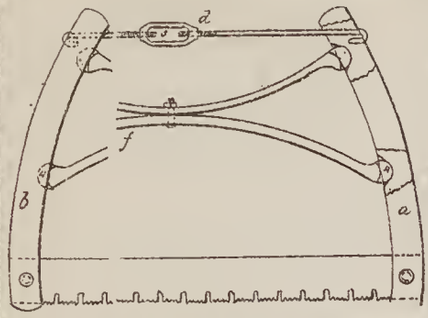


94,499, MOSES S. MARSHALL.

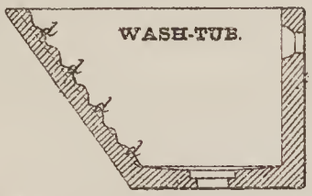


WASHING-MACHINE.

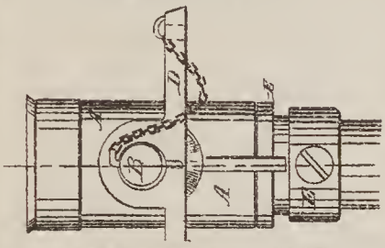
94,500, DANL. MOORE. EDWIN MOORE.
SAW-FRAMES.



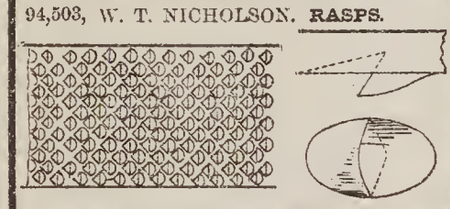
94,501, BERNARD MORAHAN.
WASH-TUB.



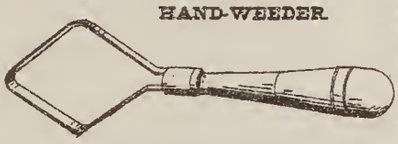
94,502, DANIEL NEWTON.
ANIMAL-TEDDER.



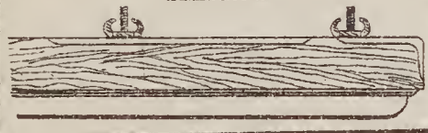
94,503, W. T. NICHOLSON. RASPS.



94,504. ARTHUR F. NOYES.
N. D. BEECROFT.
HAND-WEEDER.

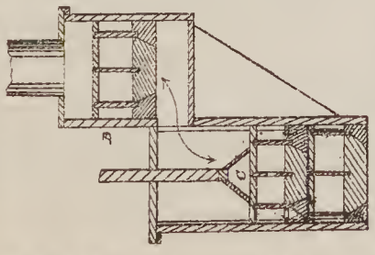


94,505 HENRY C. OVERMAN.
SLEIGH-SHOE.

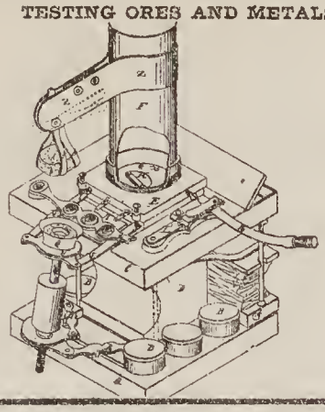


94,506, R. D. OZBURN. CHURNS.

94,507. JOEL PATRICK. PUMPS.

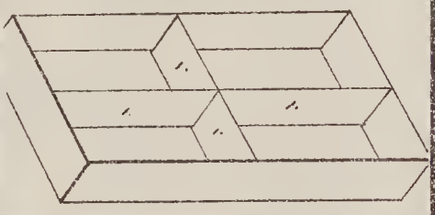


94,508, J. S. PHILLIPS.
APPARATUS FOR ASSAYING AND TESTING ORES AND METALS.

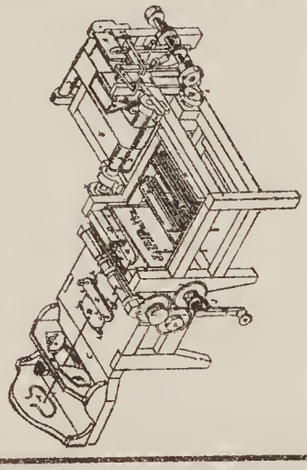


94,509, JOHN PICKLES.
PROCESS OF CONCENTRATING AND GRANULATING SACCHARINE LIQUIDS

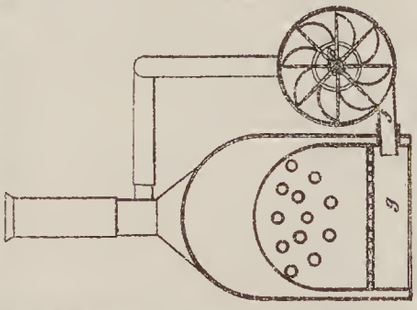
94,510, DAVID PIERCE.
CONSTRUCTION OF SHIPS.



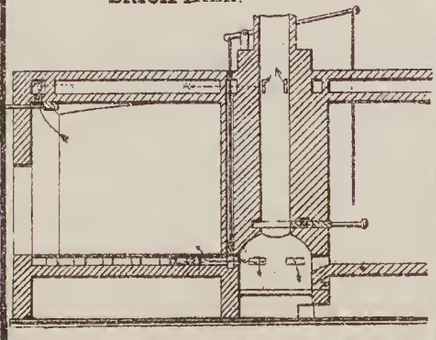
94,511 J. P. PULTZ. PAPER-BAG MACHINES.



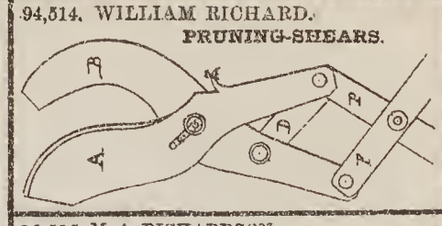
94,512, GEORGE W. RAWSON.
DEVICE FOR AIDING COMBUSTION IN STEAM-GENERATORS.



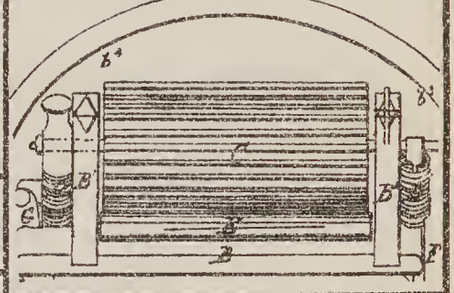
94,513, JAMES V. B. REMSEN.
BRICK-KILN.



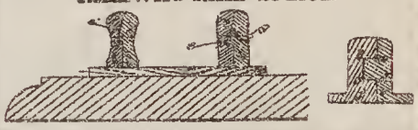
94,514. WILLIAM RICHARD.
PRUNING-SHEARS.



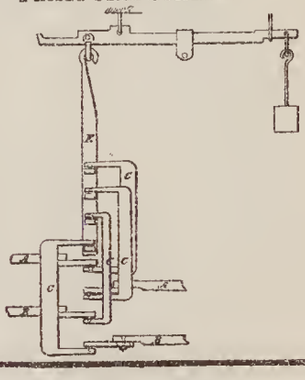
94,515, M. A. RICHARDSON.
WASHING-MACHINE.



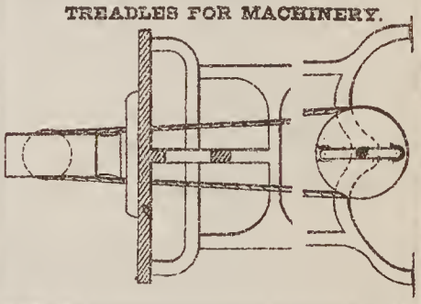
94,516. BENJA. ROBINSON.
RAILWAY-RAIL SPLICE.



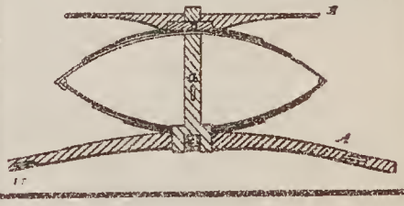
94,517, LYMAN M. SEVERANCE.
PLATFORM-SCALES.



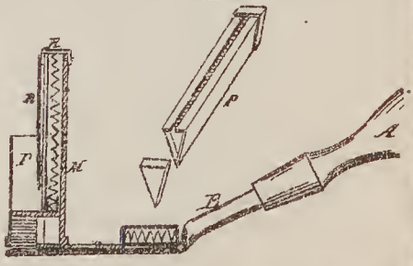
94,518. JASPER H. SINGER.
TREADLES FOR MACHINERY.



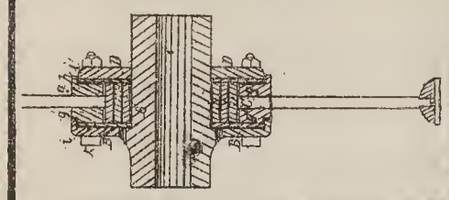
94,519. JOEL E. SLEGEL. ELI SLEGEL.
STAY AND GUIDE-BAR FOR ELLIPTIC SPRINGS FOR VEHICLES.



94,520. CHAS. E. SMITH.
BRAD-SETTER.

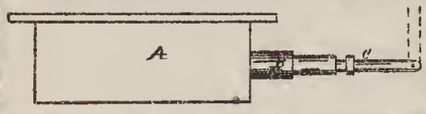


94,521, TIMOTHY R. SMITH.
CARRIAGE-WHEEL.

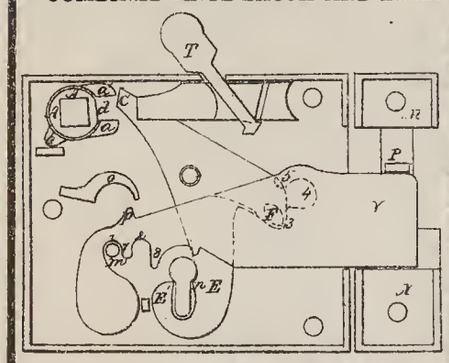


94,522. H. SPILLMANN. **TRUSS.**

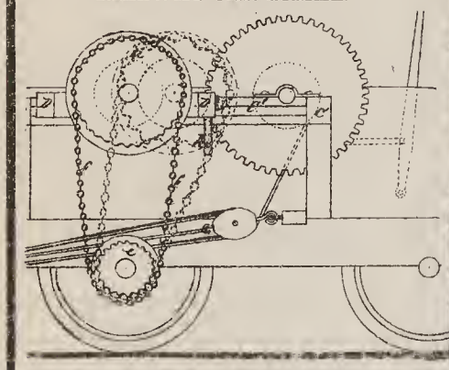
94,523, PETER A. STEWART. **GOVERNING-DEVICE FOR STEAM-ENGINES.**



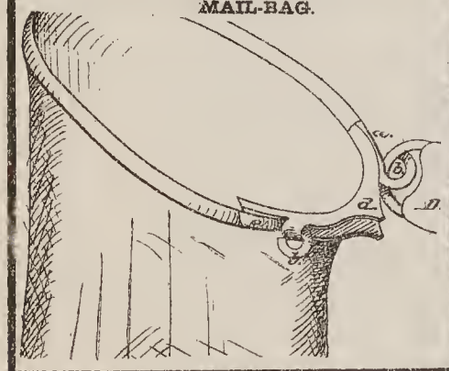
94,524. W. H. SULLENBERGER.
COMBINED KNOB-LATCH AND LOCK.



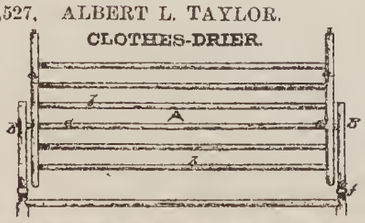
94,525, JOHN W. SWALES.
RAILWAY-CAR BRAKE.



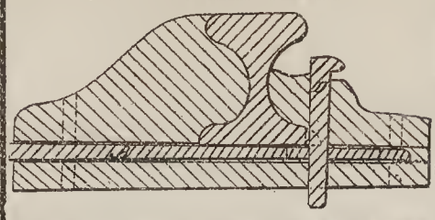
94,526. ZARA TOUSEY-SWEET.
MAIL-BAG.



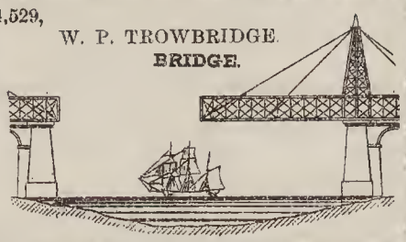
94,527, ALBERT L. TAYLOR.
CLOTHES-DRIER.



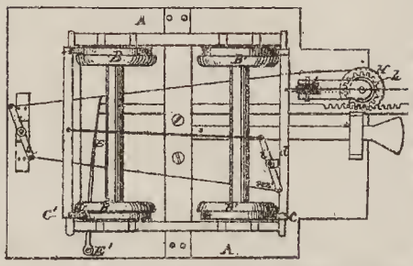
94,528, A. B. THOMPSON.
RAILWAY-RAIL CHAIR.



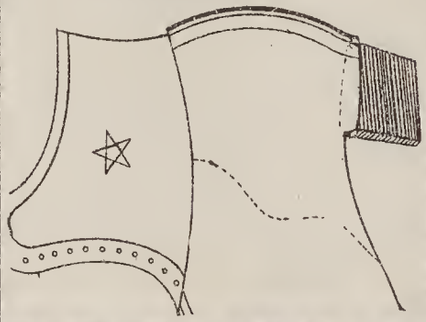
94,529,
W. P. TROWBRIDGE.
BRIDGE.



94,530, INGLIS WALKER.
RAILWAY-CAR BRAKE.

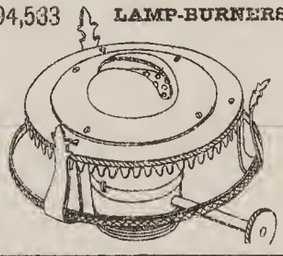


94,531, A. G. WATERHOUSE.
OVERSHOES.

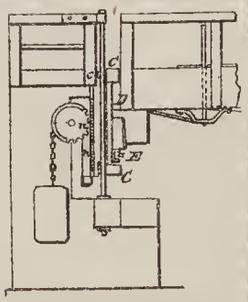


94,532, JAMES WEBSTER.
METALLIC ALLOY FOR FILTERING OILS, AND FOR THE MANUFACTURE OF PAINTS, CEMENTS, &c.

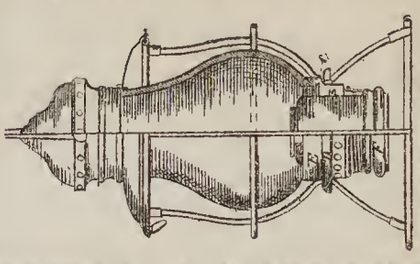
JOHN HUBBARD WEEDEN.
94,533 **LAMP-BURNERS.**



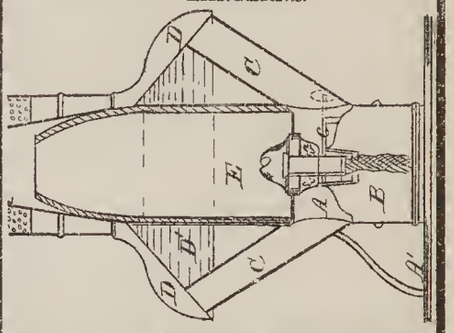
ALEXANDER WEIDE. **BRIDGE-GATE.**
94,534.



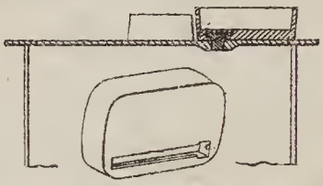
94,535, WILLIAM WESTLAKE.
LANTERNS.



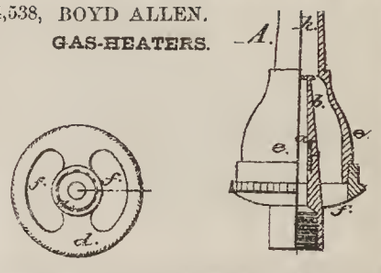
94,536, WILLIAM WESTLAKE.
LANTERNS.



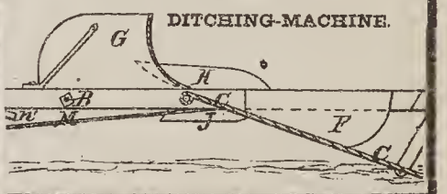
94,537, D. N. ALLARD.
ATTACHMENT FOR COOKING-STOVES.



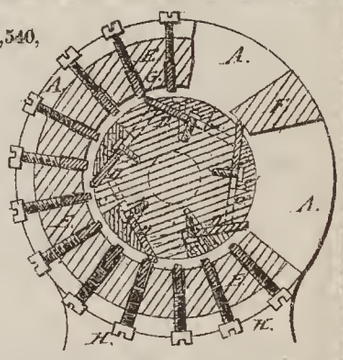
94,538, BOYD ALLEN.
GAS-HEATERS.



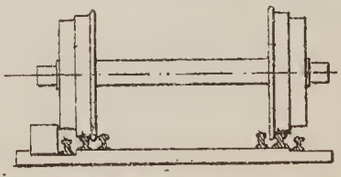
94,539, JAMES S. ANDERSON.
JAMES B. COOLEY.
DITCHING-MACHINE.



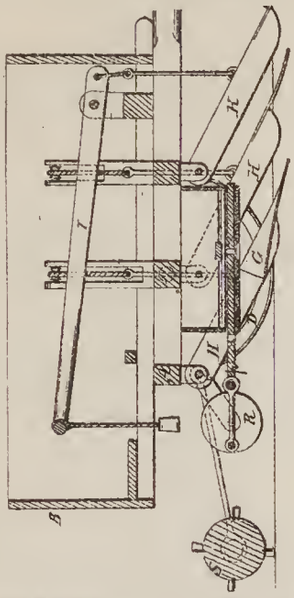
CHARLES S. BAILEY. **HULLING-MILL.**
94,540,



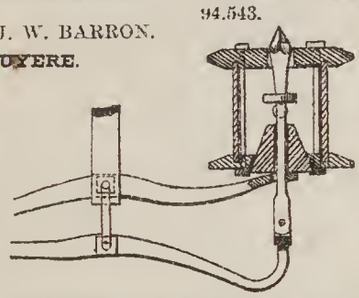
94,541, HUGH BAINES.
RAILWAY-CROSSING FOR CONE-WHEELS.



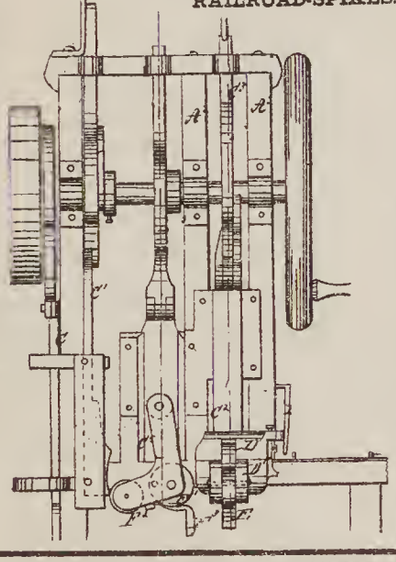
94,542, CULTIVATORS. JOB McNAMEE BAKER.



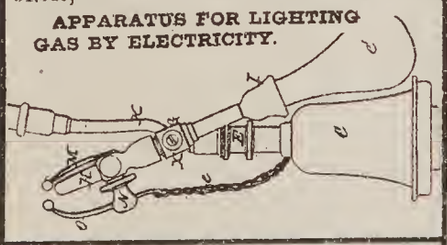
J. W. BARRON. 94,543. TUYERE.



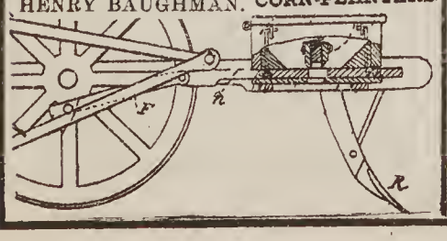
94,544, J. W. BARTLETT. D. P. BOSWORTH. MACHINE FOR MAKING RAILROAD-SPIKES.



94,545, WILLIAM W. BATCHELDER. APPARATUS FOR LIGHTING GAS BY ELECTRICITY.



94,546, HENRY BAUGHMAN. CORN-PLANTERS.



94,547, RAILWAY-CAR COUPLING. R. W. BAYLOR.

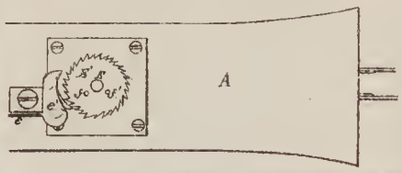
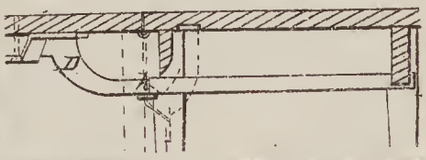
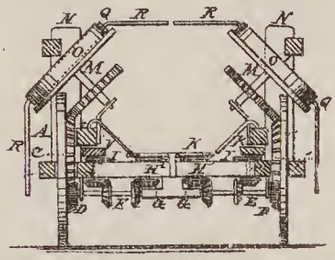


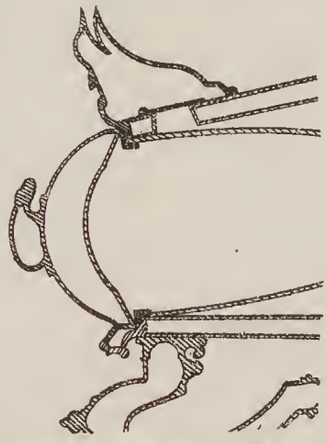
TABLE-LEAF SUPPORT. 94,548, A. BELCHAMBERS.



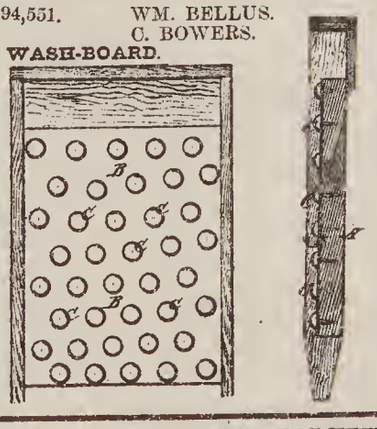
94,549, G. W. S. BELL. CORN-HARVESTERS.



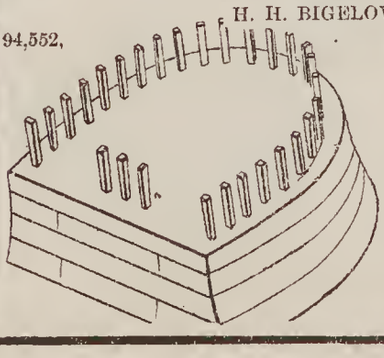
94,550, WILLIAM BELLAMY. ICE-PITCHERS.



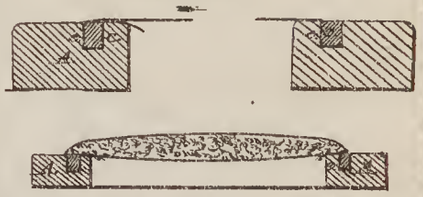
94,551. WM. BELLUS. C. BOWERS. WASH-BOARD.



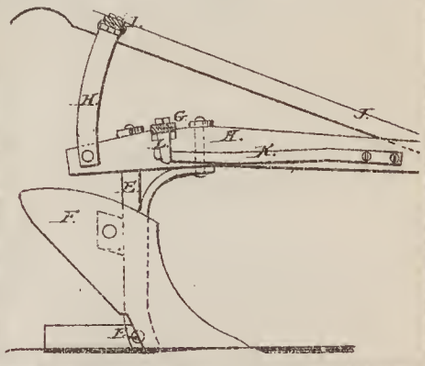
BLANK BOOT-HEELS. H. H. BIGELOW. 94,552,



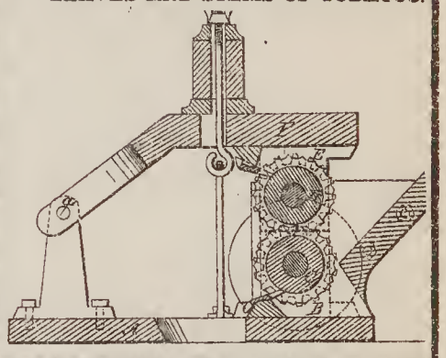
94,553. O. A. BINGHAM. CHAIR-SEAT.



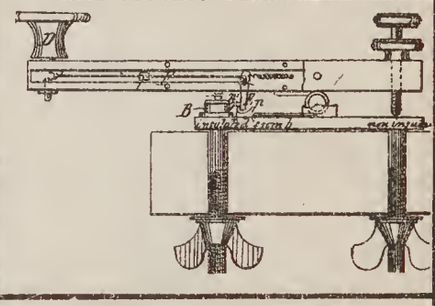
94,554, ABRAM BOLES. PLOWS.



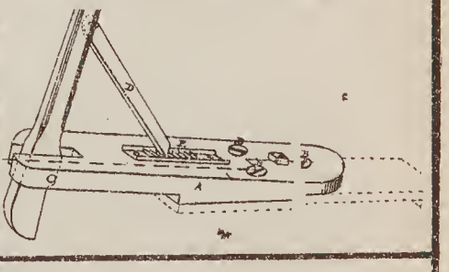
94,555, NICHOLAS H. BORGFELDT. MACHINE FOR BREAKING THE LEAVES AND STEMS OF TOBACCO.



94,556, W. CLAY BOWERS. SELF-CLOSING TELEGRAPH-KEYS.

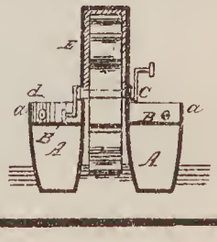


94,557, M. V. BRIGHAM. CLAMP.

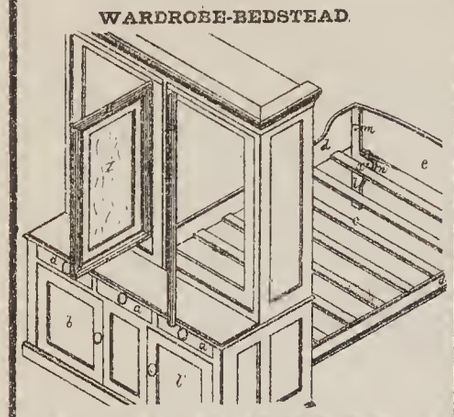


94,558, MORGAN W. BROWN. MODE OF CLOSING PAPER BAGS.

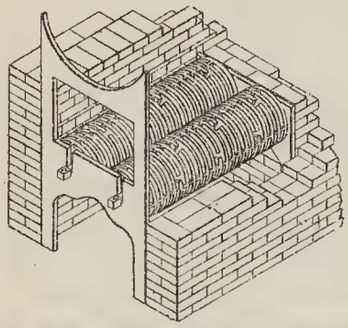
94,559, LEWIS D. BUNN. FLOATING VELOCIPEDES.



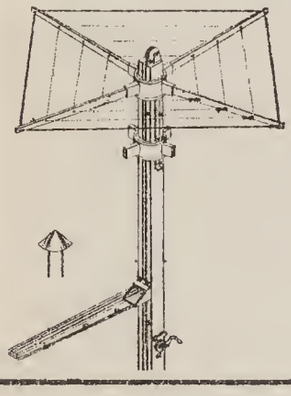
94,560. SANFORD S. BURR.
LEVI PIERCE.
WARDROBE-BEDSTEAD.



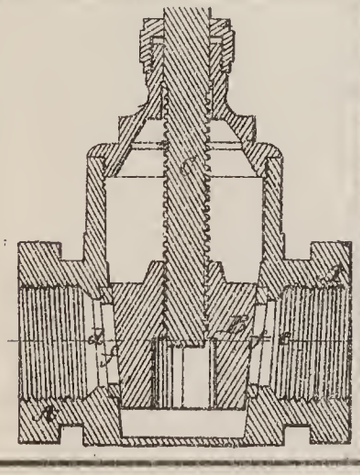
94,561. DAVID BYARD.
GRATE-BAR FOR BOILRS.



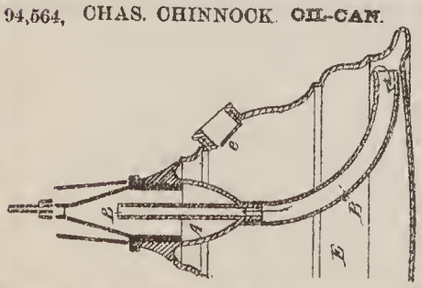
94,562. EDWARD CARTER.
CLOTHES-DRIER.



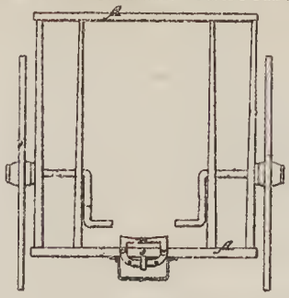
94,563. JOHN C. CHAPMAN.
STOP-COCKS.



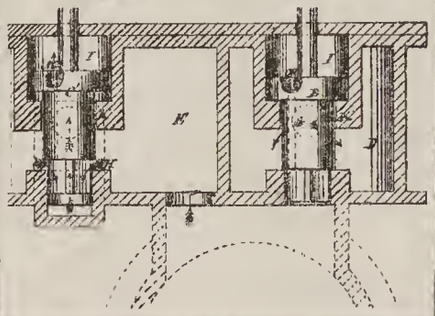
94,564. CHAS. CHINNOCK. **OIL-CAN.**



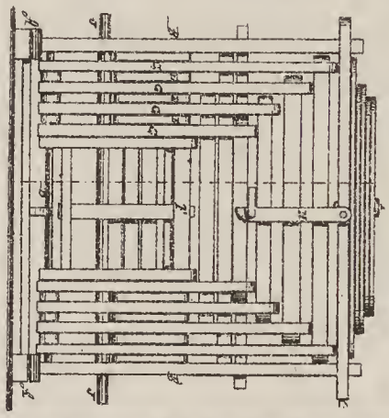
94,565. WM. B. CLARK. **VELOCIPEDE.**



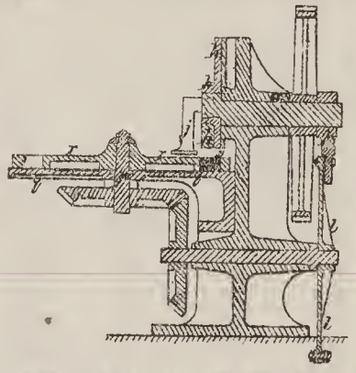
94,566. DANIEL COLLINS.
BALANCED VALVES.



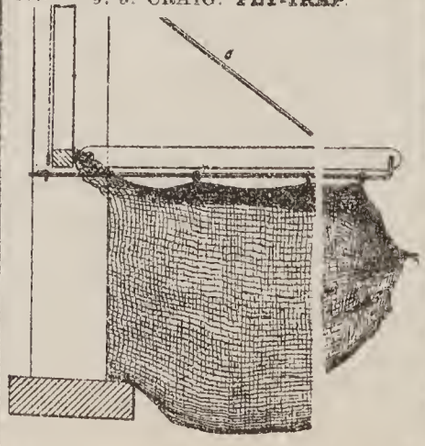
94,567. T. C. COLLINS. **CLOTHES-DRIER.**



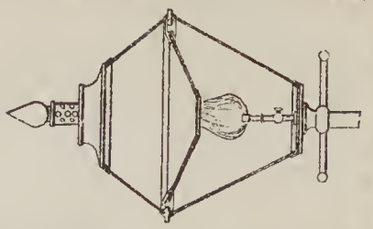
94,568. THOMAS COPE. GEORGE COPE.
MACHINES FOR PRESSING TOBACCO.



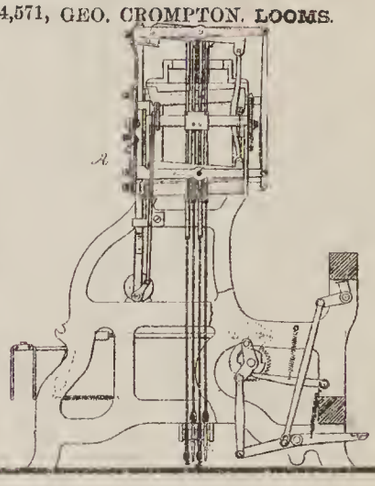
94,569. J. J. CRAIG. **FLY-TRAP.**



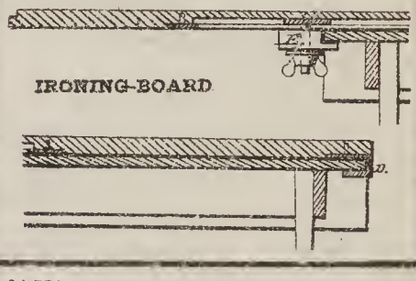
94,570. JOSEPH W. CREMIN.
REFLECTORS FOR STREET-LAMPS.



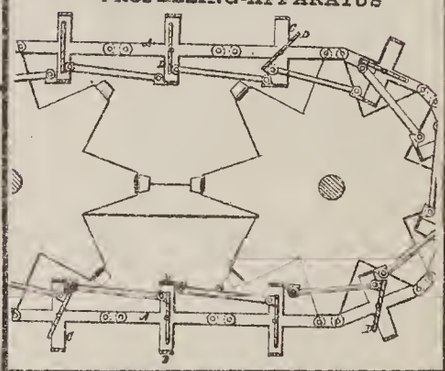
94,571. GEO. CROMPTON. **LOOMS.**



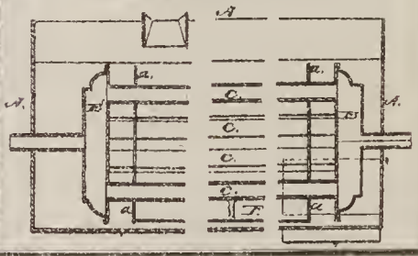
94,572. D. E. CROSBY.
IRONING-BOARD.



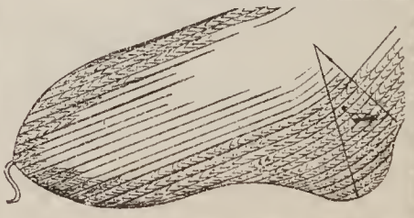
94,573. J. S. CUNNINGHAM.
PROPELLING-APPARATUS.



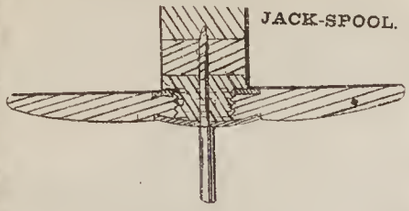
94,574. HENRY CUTLER.
MEAL AND FLOUR-DRIER.



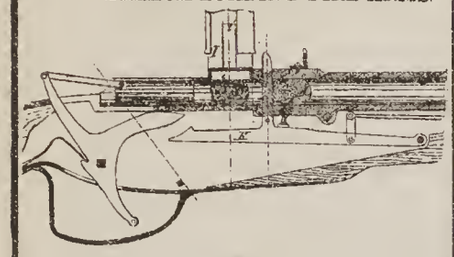
94,575. ANTHONY G. DAVIS.
CHARLES W. BLAKESLEE.
EBENEZER B. BEECHER.
KNITTED STOCKINGS.



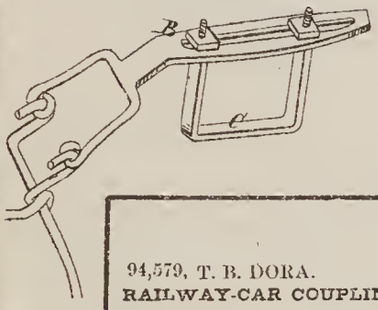
94,576. DANIEL R. DAY.
JOHN G. FOLSOM.
JACK-SPOOL.



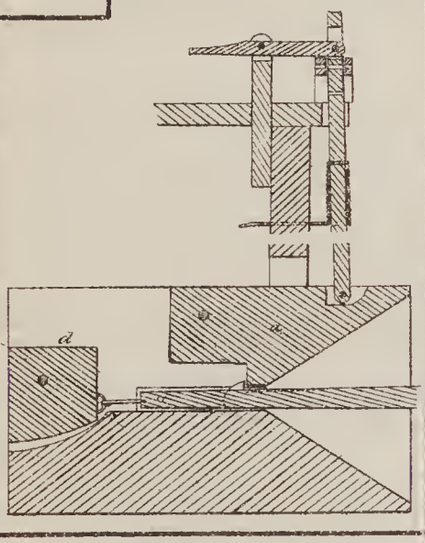
94,577. FAUSTINO VALDES DIAZ.
BREECH-LOADING FIRE-ARMS.



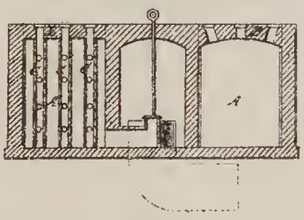
94,578. LOYAL M. DODDRIDGE.
WEED-GATHERER FOR PLOWS.



94,579. T. B. DORA.
RAILWAY-CAR COUPLING.

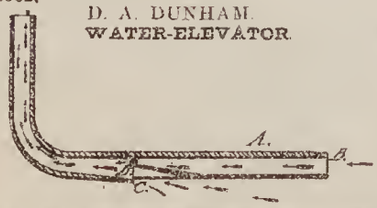


94,580. HELMUTH DUEBERG.
PROGRESSIVE KILNS.

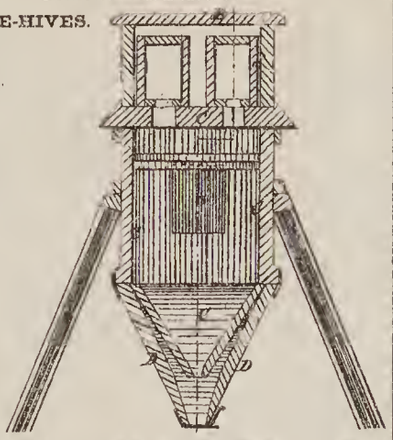


94,581. F. S. DUMONT.
COMPOUND TO BE USED AS A MORDANT IN DYEING AND PRINTING.

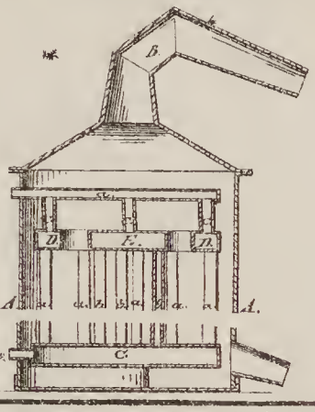
94,582. D. A. DUNHAM.
WATER-ELEVATOR.



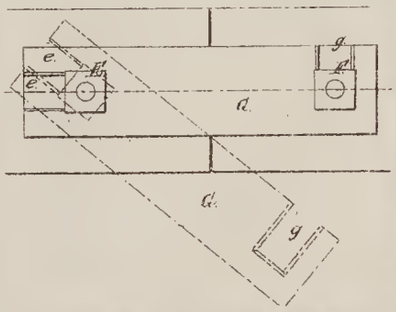
94,583. HOMER M. DUNHAM
BISHOP ADDINGTON
BEE-HIVES.



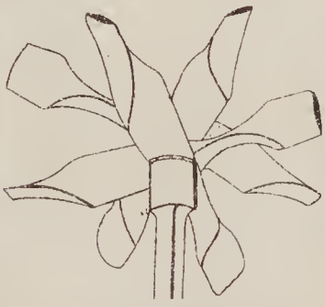
94,584. CHARLES K. DUTTON. STILLS.



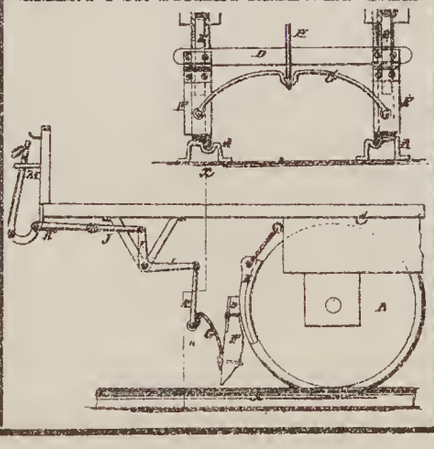
94,585. ISAAC S. DE FORD. W. P. EWING.
LOCK-NUT.



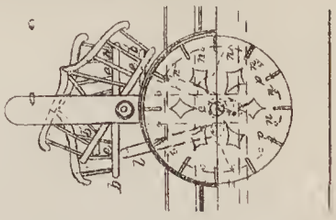
94,586. MILES FISK. CHURN-DASHERS.



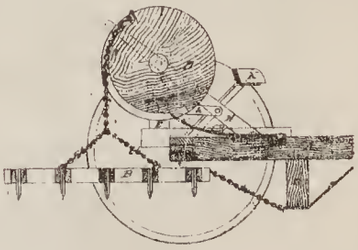
94,587. JOHN FOGARTY. SAFETY-ATTACHMENT FOR STREET-RAILWAY CARS.



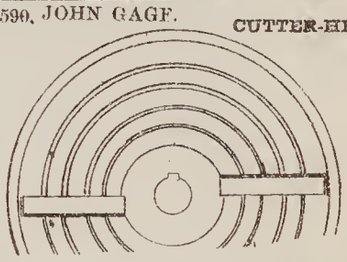
94,588. WILLIAM FRANKEL.
FLOATING-VELOCIPEDES.



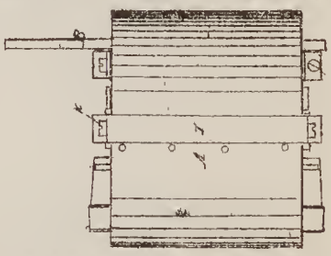
94,589. W. H. H. FRYE.
SULKY-HARROWS.



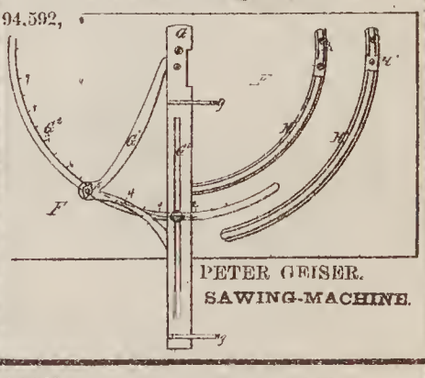
94,590. JOHN GAGE.
CUTTER-HEAD.



94,591. JOHN GAGE. MACHINE FOR FORMING SHELLS FOR DRY MEASURES.

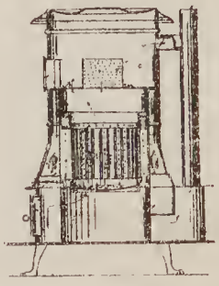


94,592.

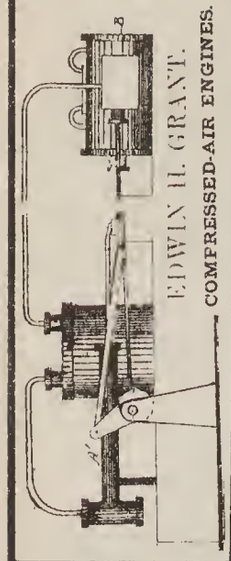


PETER GEISER.
SAWING-MACHINE.

94,593. JOHN H. GOODFELLOW.
PARLOR-STOVE.

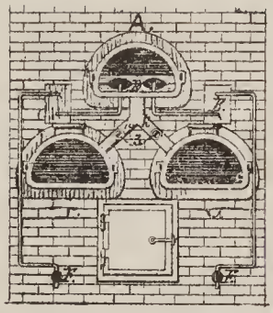


94,591, EDWIN H. GRANT. COMPRESSED-AIR ENGINES.

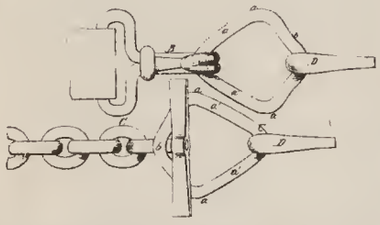


94,595, EDWIN H. GRANT. CLOTHES-DRIER.

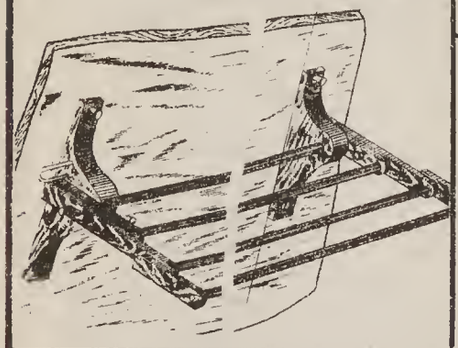
94,596, GEO. W. HARRIS. H. HOLDREGE. MANUFACTURE OF ILLUMINATING-GAS



94,597, WM. B. HAYDEN. BREAST-LOOP FOR HAMES.

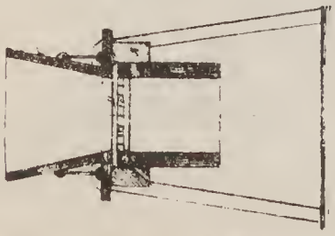


94,598 V. M. HEATH CLOTHES-RACK.

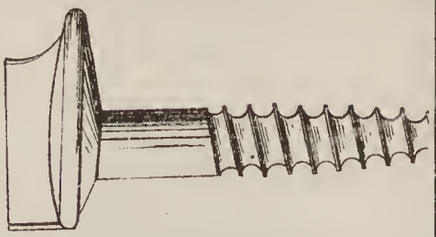


94,599. STEPHEN HEBRON. WINDOW-BLIND

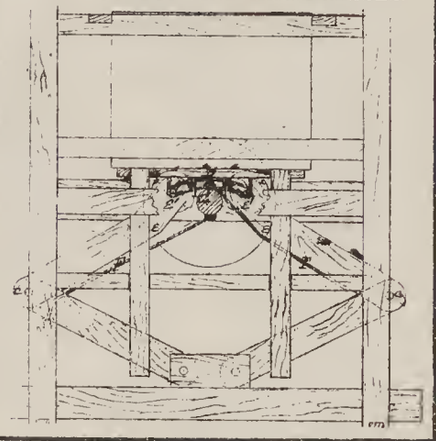
94,600. R. HEMENWAY. VEGETABLE-CUTTER.



94,601. C. L. HEYWOOD. RAILWAY-SPIKE



94,602, J. J. HINES. COTTON AND HAY-PRESSES.



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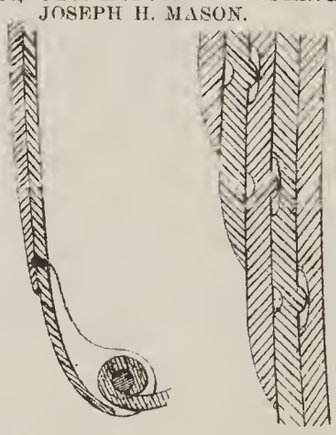
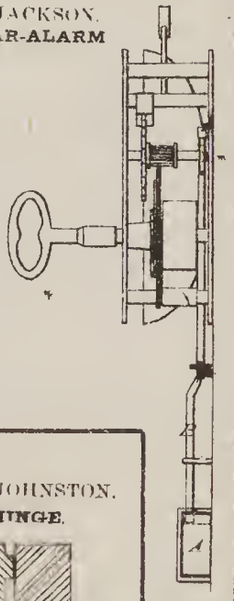
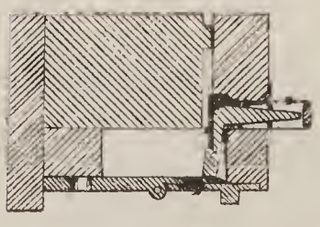


94,604. JAMES J. JACKSON. BURGLAR-ALARM



94,605, JACOB JAMESON. COMPOSITION-FLUX FOR MANUFACTURE OF IRON AND STEEL.

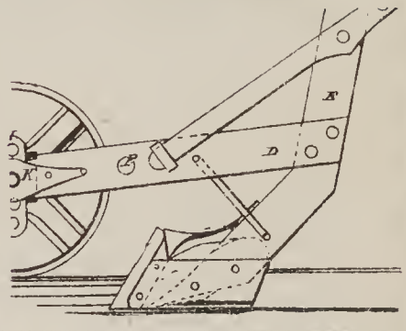
94,606, WILLIAM JOHNSTON. HINGE.



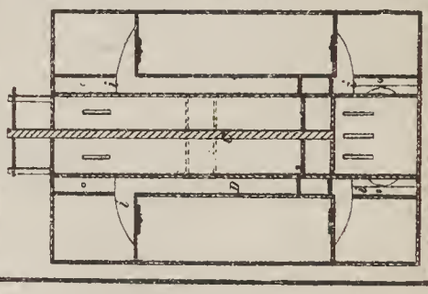
94,607, WM. JOHNSTON. RAILWAY-RAIL JOINT

94,608. J. HERVA JONES. M. S. PRENTICE. HARVESTER-GUARDS.

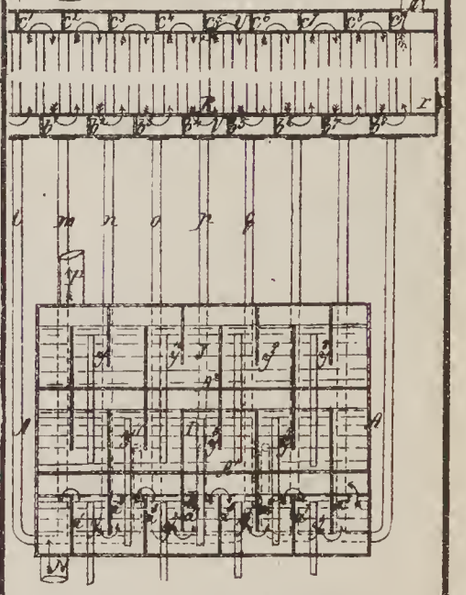
94,609. A. C. JUDSON. PLOWS.



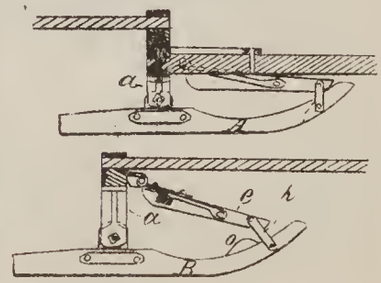
94,610. PETER M. KAFER. FORCE-PUMPS HAVING CONCENTRIC PISTONS.



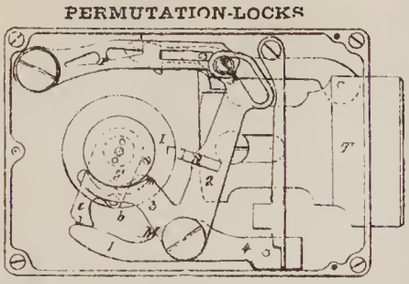
94,611 GOTTLOB KAISER. APPARATUS FOR DISTILLING AND RECTIFYING SPIRITS.



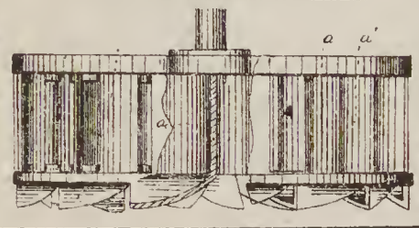
94,612. ISAIAH KINGMAN. JOINT STANDARD-SLEDS



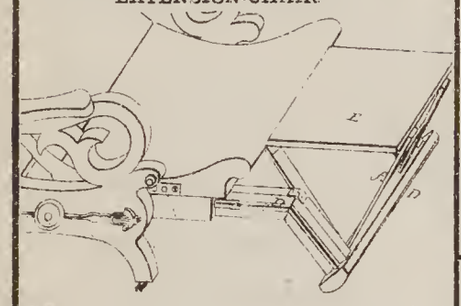
94,613, W. F. KISTLER.
PERMUTATION-LOCKS



94,614. P. H. LAMEY. A. J. BEACHELL.
TURBINE WATER-WHEELS.

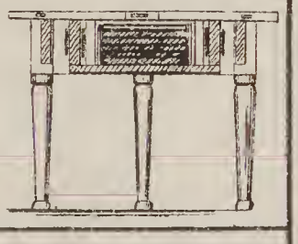


94,615, FREDERICK W. LANGE.
EXTENSION-CHAIR.

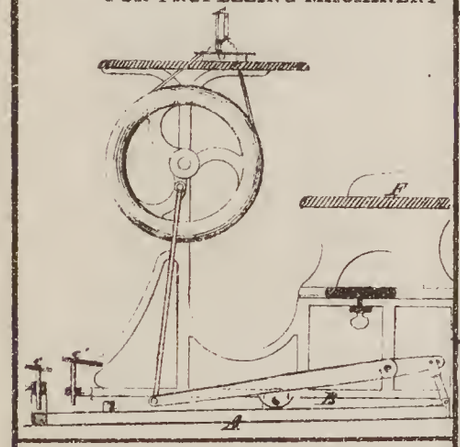


94,616. D. LANGELL.
MEDICAL COMPOUND.

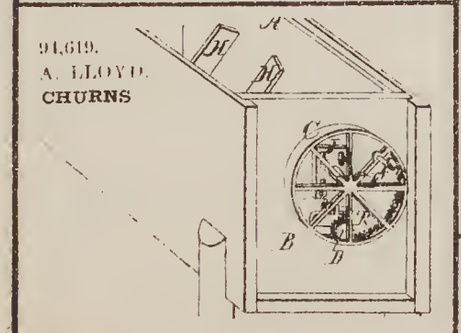
94,617. CHARLES PH. LENZ.
EXTENSION-TABLE.



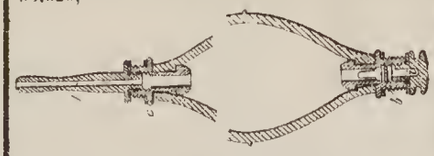
94,618. E. J. LEYBURN **APPARATUS FOR PROPELLING MACHINERY**



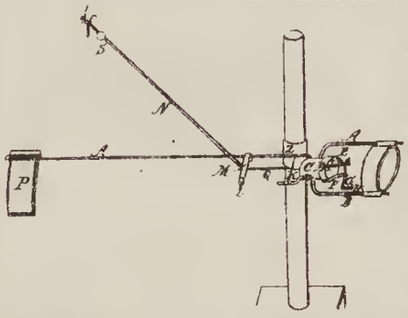
94,619.
A. LLOYD.
CHURNS



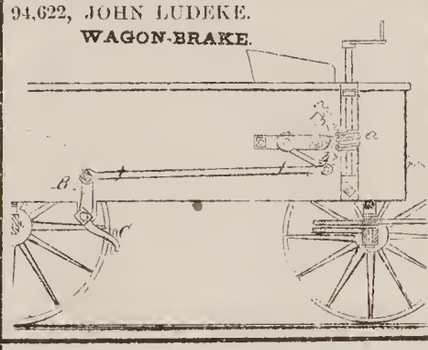
94,620, H. D. LOCKWOOD. **SYRINGES.**



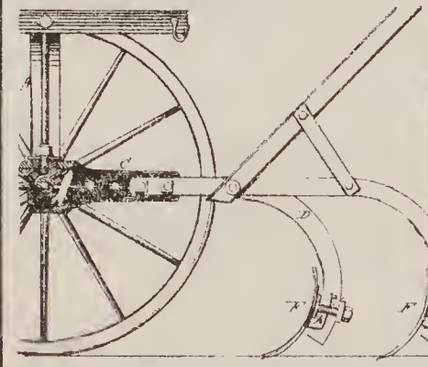
94,621, A. LODEMAN. M. DESENBERG.
FIRE-KINDLERS.



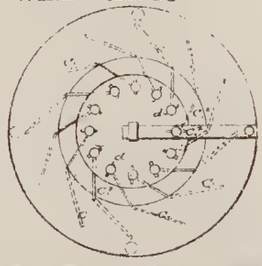
94,622, JOHN LUDEKE.
WAGON-BRAKE.



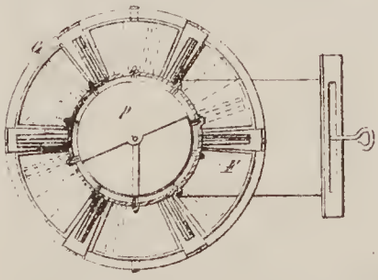
94,623. EDWARD P. LYNCH.
HENRY R. RAFF.
WALKING-CULTIVATORS.



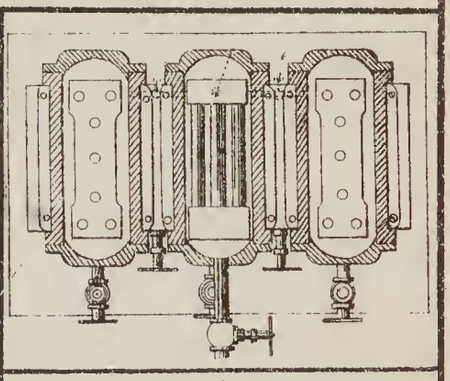
94,624, AMBROSE I. MAXWELL.
WIND-WHEELS



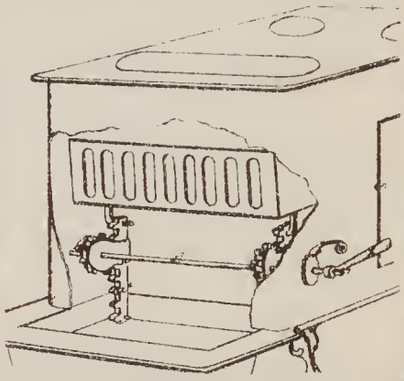
94,625, H. D. McGEORGE. **COAL-STOVE.**



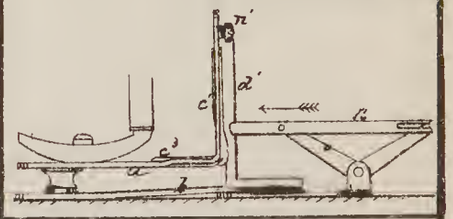
94,626, A. B McNAIR.
PRESERVING WOOD FROM DECAY AND MILDEW.



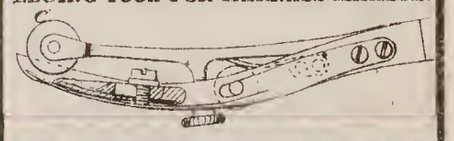
94,627, JOHN MORAN. **STOVE-GRATE.**



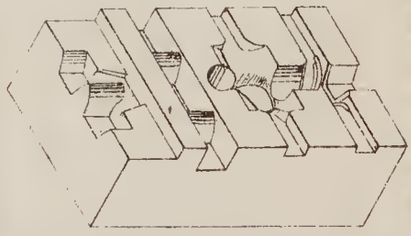
94,628, AARON MOREHOUSE.
ALFRED R. HEATH.
PLAITING-ATTACHMENT FOR SEWING-MACHINES.



94,629. O. WM. MORLEY.
EDGING-TOOL FOR HARNESS-MAKERS.

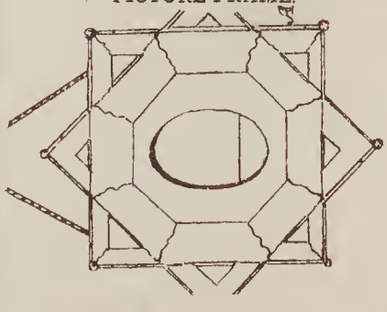


94,630, F. B. MORSE.
DIE FOR FORGING FRENCH CLIPS FOR CARRIAGES

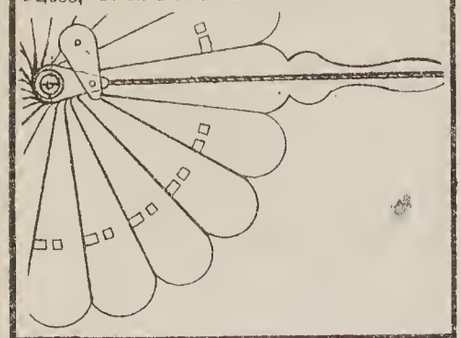


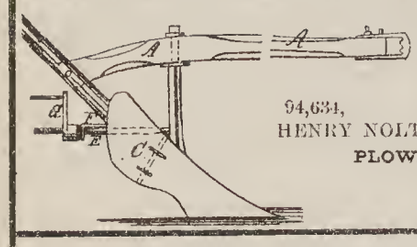
94,631, STEPH. MOULTON.
PRINTERS' INKING-ROLLER FROM RUBBER-SPONGE.

94,632, ALBERT A. MURFEY.
PICTURE-FRAME.



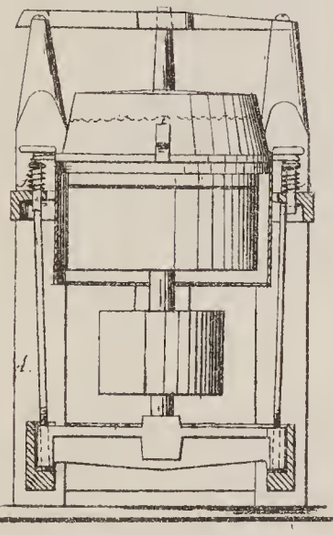
94,633, O. R. NITSCH. **FANS.**



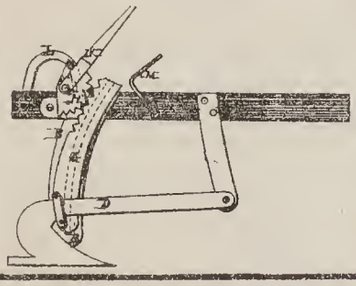


94,634, HENRY NOLTE. **PLOWS.**

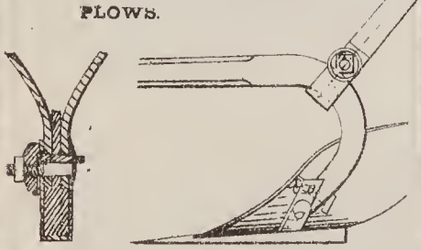
94,635, JAMES NORMAN. **GRAIN-MILLS.**



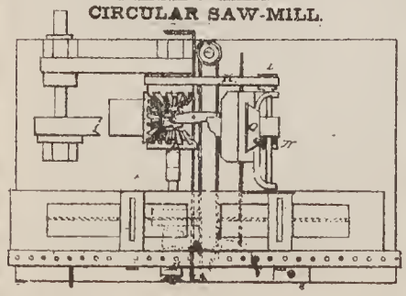
94,636, O. OSBORN. **PLOWS.**



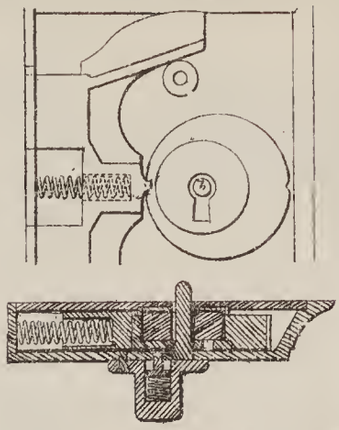
94,637, WASHINGTON F. PAGETT. **PLOWS.**



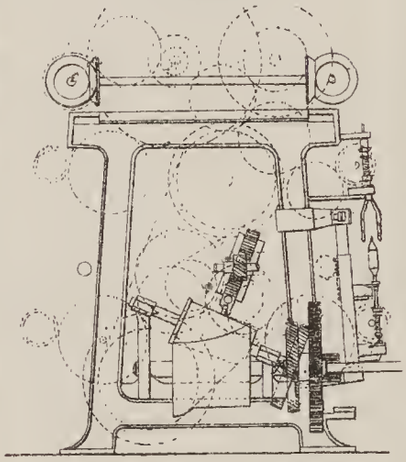
94,638, FRANCIS PARKER. **CIRCULAR SAW-MILL.**



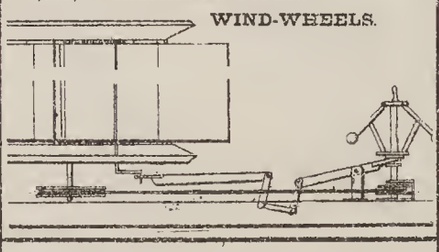
94,639, N. PETRE. **DOOR-LOCKS.**



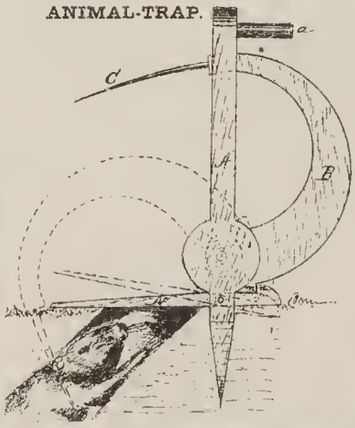
94,640, J. J. J. PIERRARD. **SPINDLES AND FLIERS.**



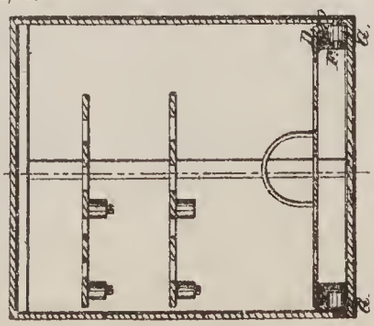
94,641, WILLIAM M. PIPER. **WIND-WHEELS.**



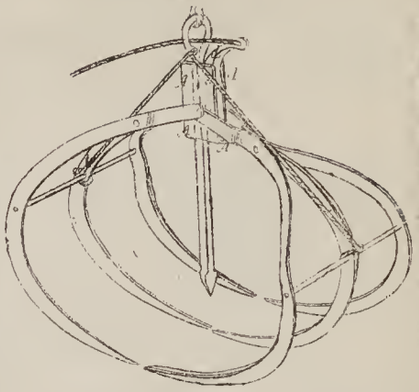
94,642, CLARK POLLEY **ANIMAL-TRAP.**



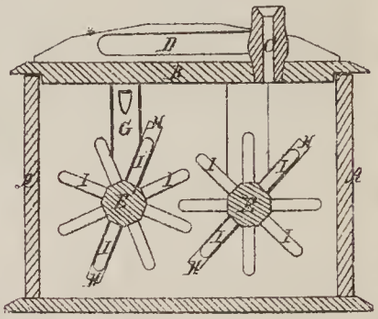
94,643, CLARISSA PRESTON. **OVEN.**



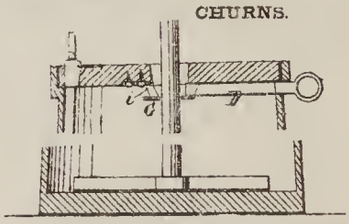
94,644, EMANUEL RABER. **HORSE HAY-FORKS.**



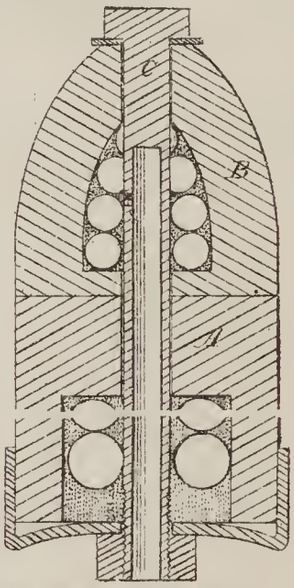
94,645, JOHN L. RESSLER. **CHURNS.**



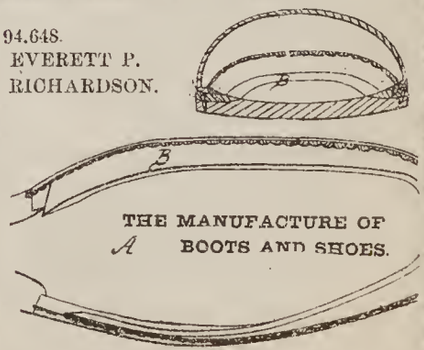
94,646, EDWARD REYNOLDS. **CHURNS.**



94,647, JOHN D. RICHARDS. **PROJECTILES.**

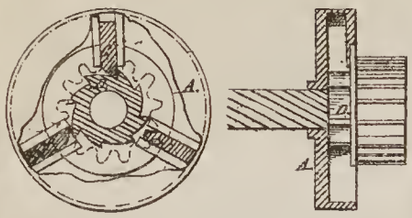


94,648. EVERETT P. RICHARDSON.

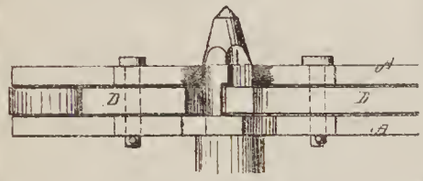


THE MANUFACTURE OF BOOTS AND SHOES.

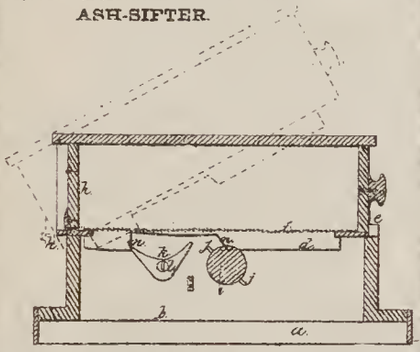
94,649. WM. I. RISEDORPH. **CLUTCH.**



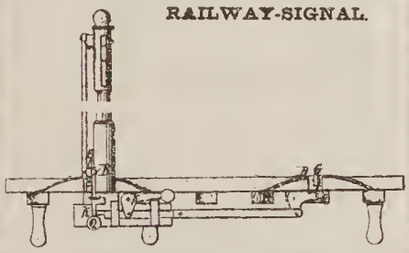
94,650. D. B. RITTER. **MILLSTONE-DRIVERS.**



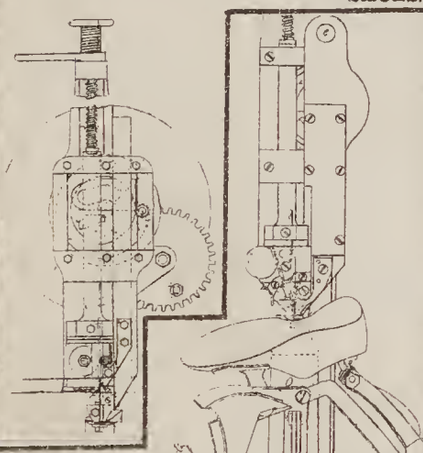
94,651. DANIEL T. ROBINSON. **ASH-SIFTER.**



94,652. ALEXANDER F. B. ROCKE. WILLIAM H. McLEOD. **RAILWAY-SIGNAL.**

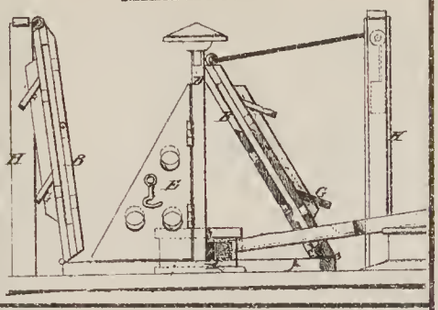


94,653. JOS. F. SARGENT. **MACHINE FOR NAILING THE SOLES TO THE UPPERS OF BOOTS AND SHOES.**

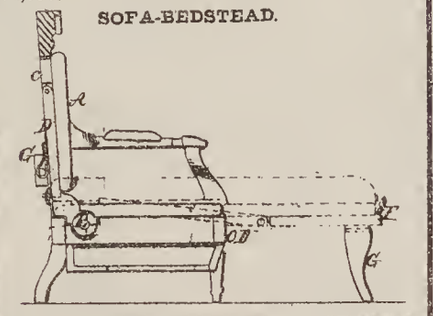


94,654. JOS. F. SARGENT. **MACHINE FOR NAILING AND PEGGING BOOTS AND SHOES.**

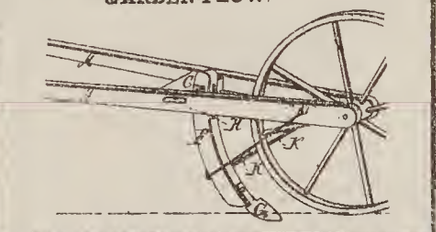
94,655. FRITZ SCHALLER. **MILK-HOUSES.**



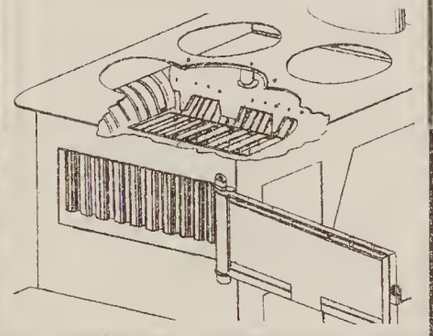
94,656. ADAM SCHWAAB. **SOFA-BEDSTEAD.**



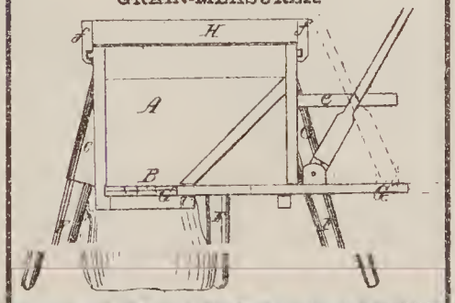
94,657. ROBERT SCOTT. **GARDEN-PLOW.**



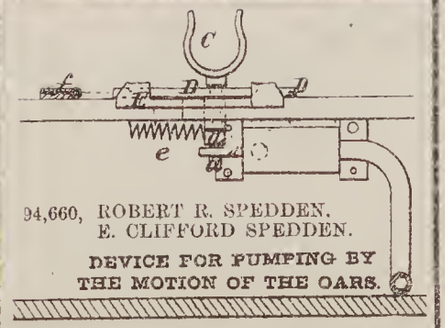
94,658. JACOB H. SHEAR. **COOKING-STOVES.**



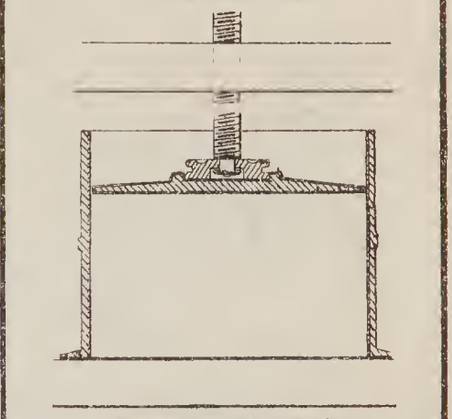
94,659. HEINRICH GRIESA. JOHN W. SMITH. **GRAIN-MEASURER.**



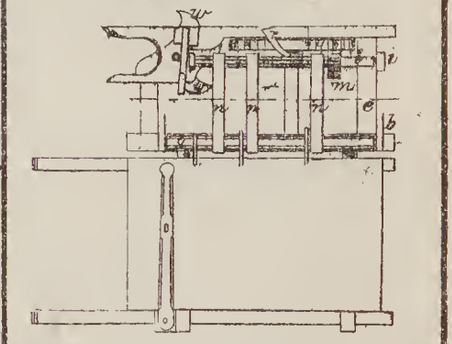
94,660. ROBERT R. SPEDDEN. E. CLIFFORD SPEDDEN. **DEVICE FOR PUMPING BY THE MOTION OF THE OARS.**



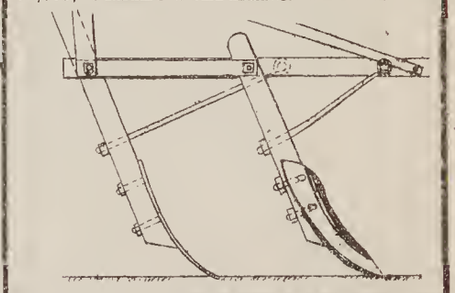
94,661. JAMES L. SPRAGUE. **CHEESE-HOOPS.**



94,662. LUCAS STADLER. **CORN-HARVESTERS.**

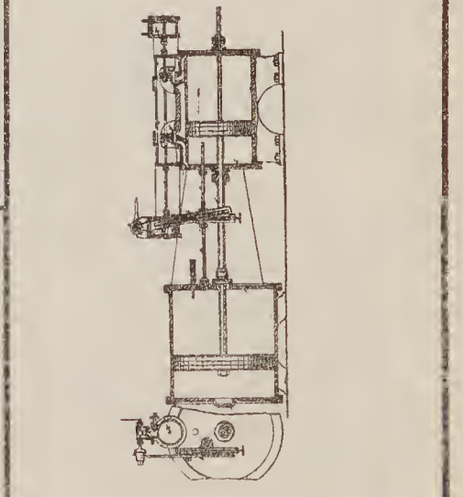


94,663. JAMES STEPHENS. **PLOWS.**

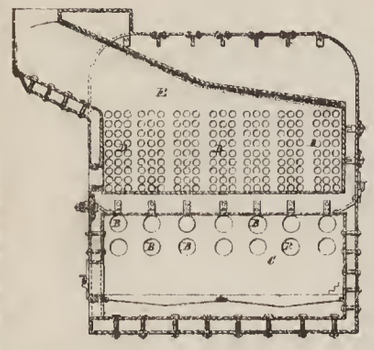


94,664. E. C. STONE. **MODE OF FASTENING ARTIFICIAL TEETH.**

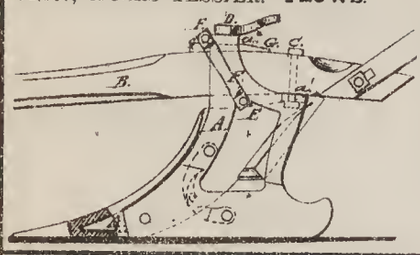
94,665. JOHN STORER. **DIRECT-ACTING ENGINES.**



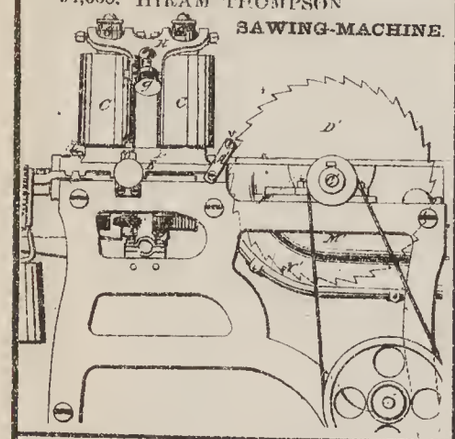
94,666, JAMES STUART.
STEAM-GENERATORS.



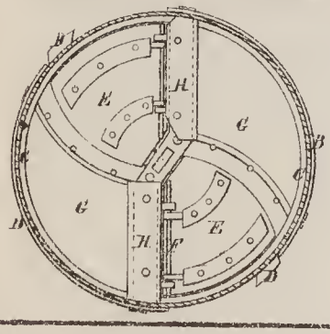
94,667, MOSES TESSIER. **PLOWS.**



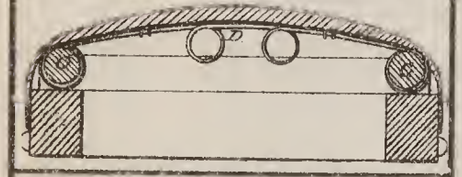
94,668. HIRAM THOMPSON
SAWING-MACHINE.



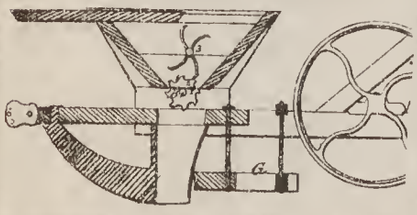
94,669, DENISON TISDALE.
GOLD-DIGGING APPARATUS.



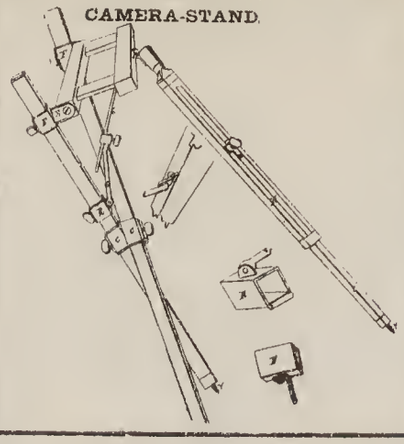
94,670. E. W. TUCKER.
SPRING FOR UPHOLSTERY, CHAIR, CAR, AND OTHER SEATS.



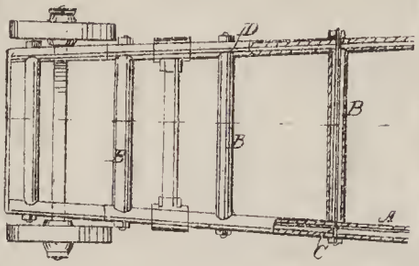
94,671, W. F. TUNNARD.
COTTON-SEED PLANTER.



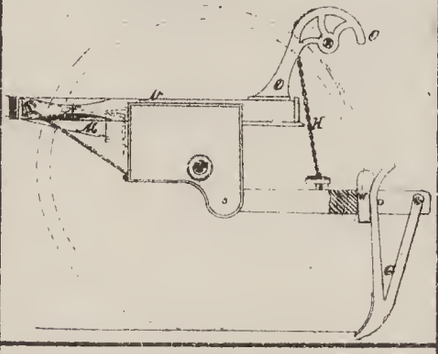
94,672, A. E. TURNBULL.
CAMERA-STAND.



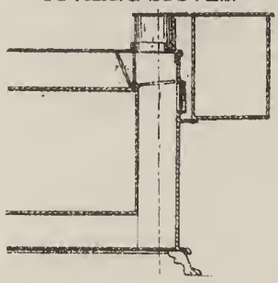
94,673, B. W. TUTHILL. **HAND-TRUCK.**



94,674, D. C. VAN BRUNT.
G. W. VAN BRUNT.
HIRAM BARBER.
SEEDING-MACHINES.

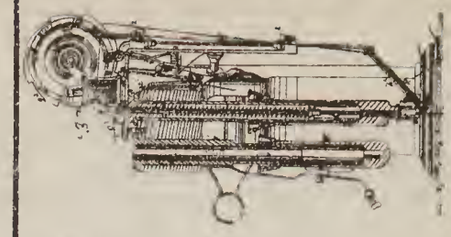


94,675, NICHOLAS S. VEDDER.
COOKING-STOVES.

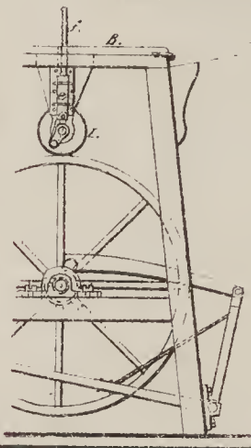


94,676, N. S. WARNER.
A TOY-VELOCIPEDE.

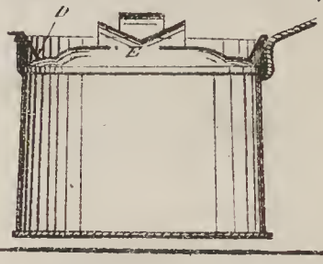
94,677. ALBIN WARTH.
SEWING-MACHINES



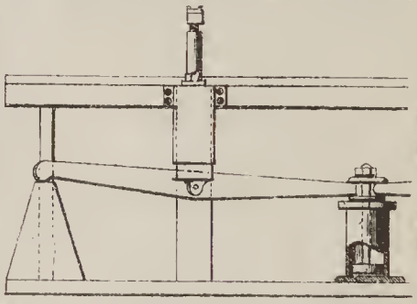
94,678. R. M. WASHBURN.
SCROLL-SAWING MACHINES



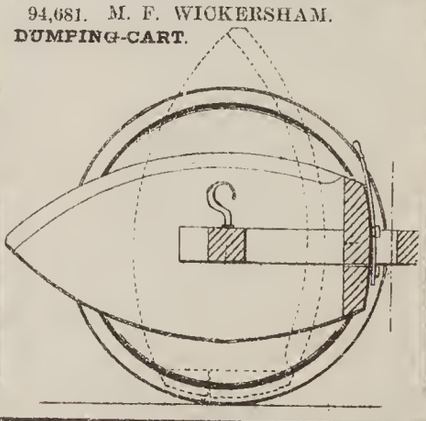
94,679, W. B. WATKINS.
BOILERS OR STEW-PANS.



94,680. REUBEN WELLS.
RAILWAY-CAR-BODY ELEVATOR.

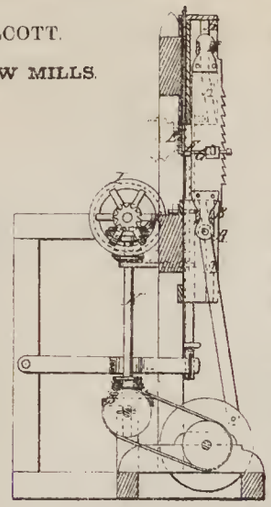


94,681. M. F. WICKERSHAM.
DUMPING-CART.

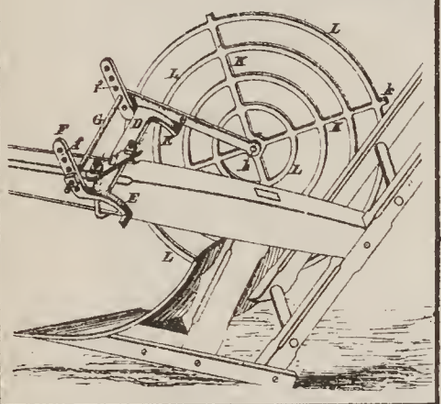


94,682,
CHARLES G. WILSON.
FURNITURE-CASTER.

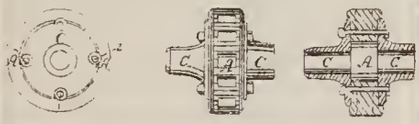
94,683
R. F. WOLCOTT.
MULEY-SAW MILLS.



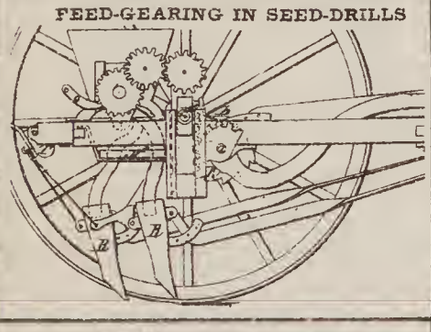
94,684.
JOHN F. WOOLLEY.
ROTARY CLOD-FENDERS.



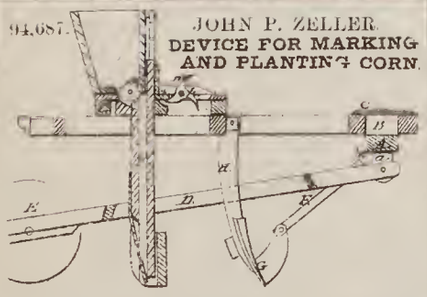
94,685, JOHN P. ZELLER.
HUBS FOR VEHICLES.



94,686. JOHN P. ZELLER **FORCED FEED-GEARING IN SEED-DRILLS**

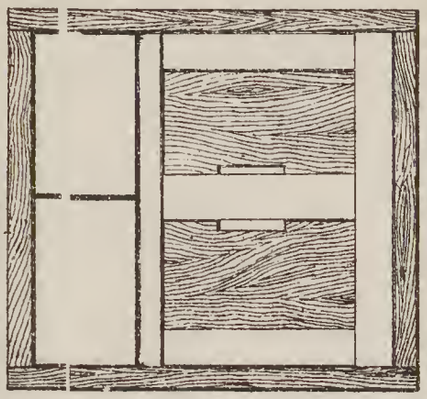


94,687. JOHN P. ZELLER.
DEVICE FOR MARKING AND PLANTING CORN.



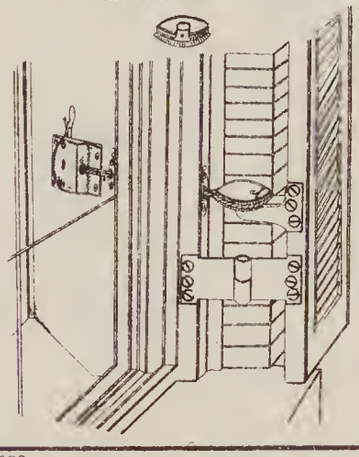
IMPLEMENT FOR CARPENTERS' USE
94,688.
EDWARD his X mark GRAY.

ROBERT K. KILLE
94,689, **SLATE-ROOFING.**

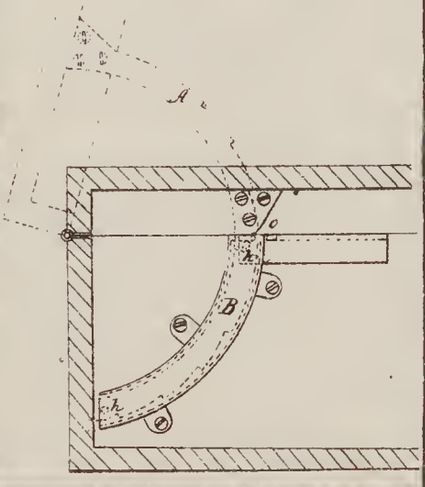


94,690, OSCAR I. HARRINGTON.
ELIJAH WEAVER.
LEATHER CORD OR ROPE.

94,691, THOS. H. BRADLEY.
SHUTTER-WORKER.



94,692. JULES ROCH.
BRACE FOR COVERS OF TRUNKS, PIANOS.



3,630, JAMES ARMSTRONG. Jr
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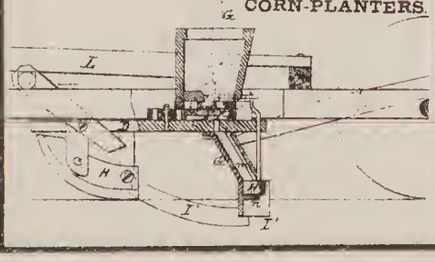
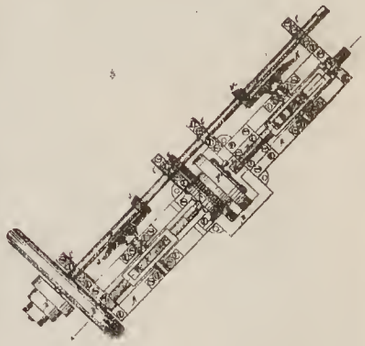
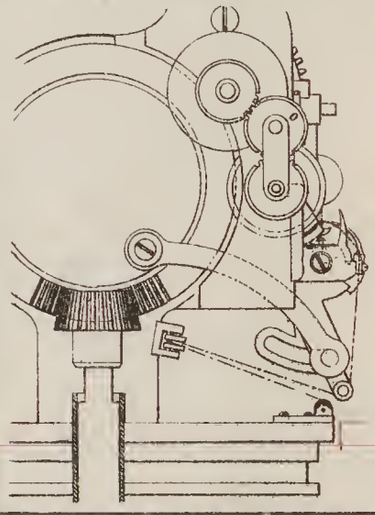


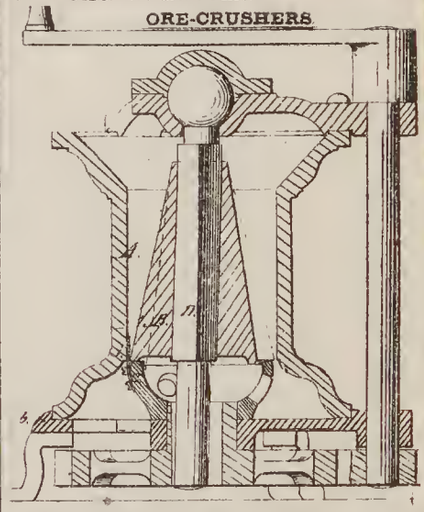
3,631. GEO. DUNHAM.
MACHINE FOR FORGING NUTS



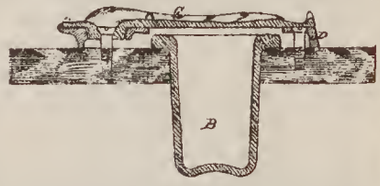
3,632. B. A. EARL.
APPARATUS FOR OILING WOOL.



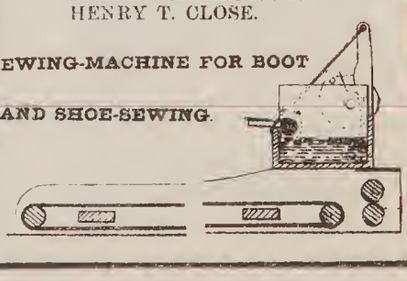
3,633. JAS. W. RUTTER.
ORE-CRUSHERS.



3,634. H. L. ANDREWS. **INKSTANDS**



3,635, CHAS. GOODYEAR, Jr.
FRANCIS DU BOIS.
FREDERICK RENAUD.
HENRY T. CLOSE.
SEWING-MACHINE FOR BOOT AND SHOE-SEWING.



ILLUSTRATIONS OF PATENTS

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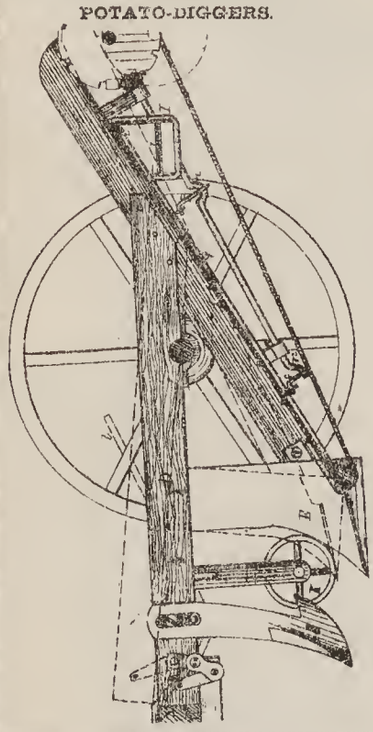
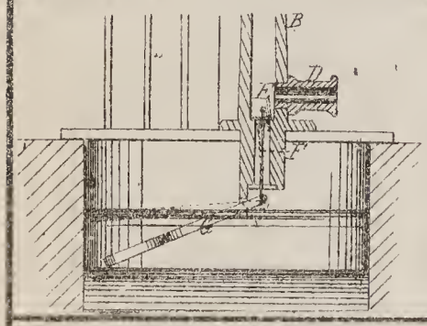
SEP. 14, 1869.

94,693 G. W. ADAMS.
JOHN R. HOPPER.
POTATO-DIGGERS.

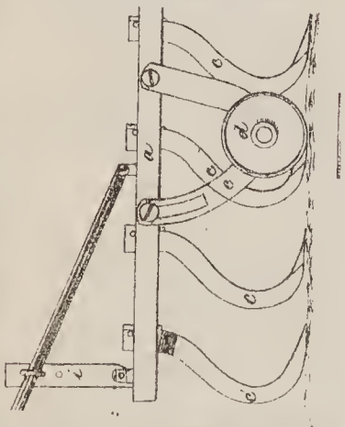


94,694, XAVIER AMOUN.
RAIN-WATER CUT-OFFS FOR CISTERNS

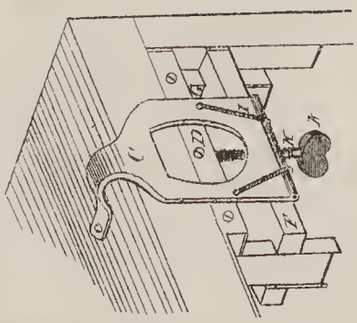


94,695, FRANCOIS AROUD.
IMPROVED SWEETMEAT.

94,696, CALEB BARTHOLOMEW.
DITCHING-MACHINES.



94,697 CHRISTIAN BATES
LEATHER-HOLDER.



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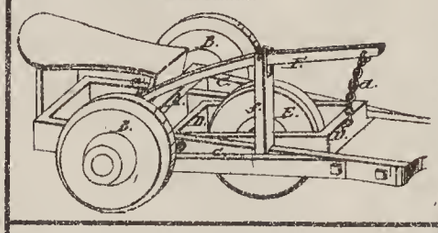
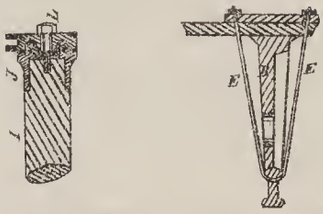
CORN-MARKERS.



94,699, WILLIAM N. BERKELEY.
SLED-RUNNER.



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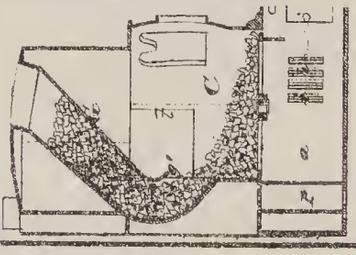
BASE-BURNING FIRE-PLACE HEATER.



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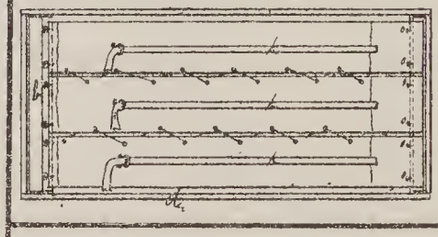

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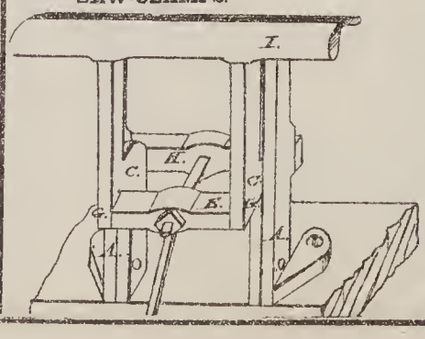
SAW-CLAMPS.



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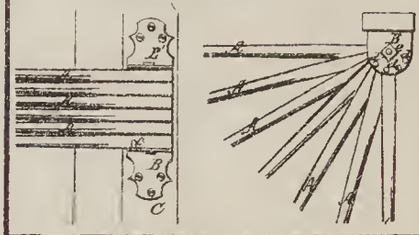

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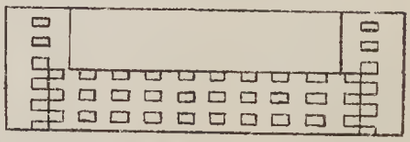
PRESERVING WOOD.



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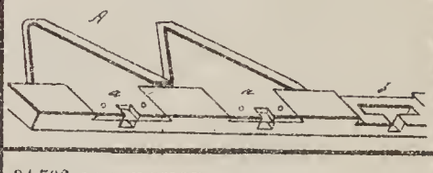
JACOB S. SHOPP.
HARVESTER-CUTTERS.



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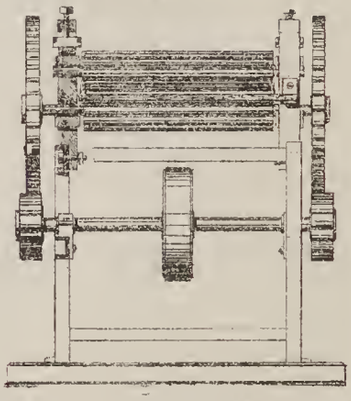

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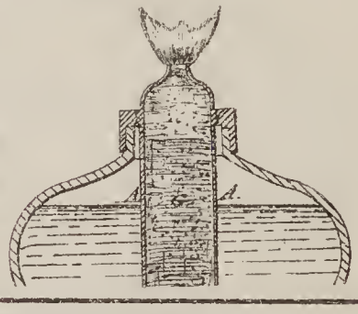

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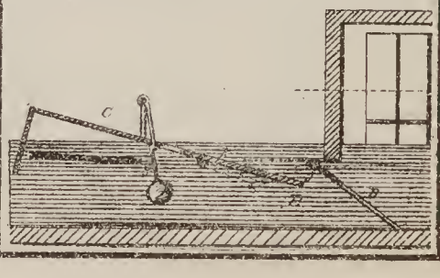
ANIMAL-TRAP.



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JOSEPH CAMPBELL.
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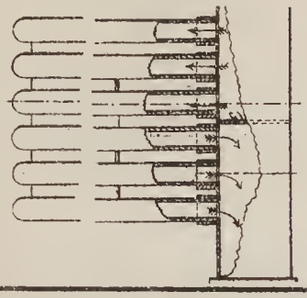
HOT-BLAST OVEN.



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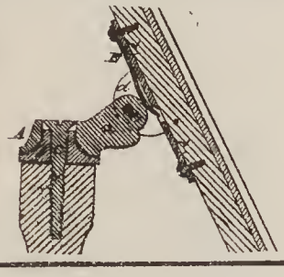
94,711 GEO. H. CHINNOCK.
TOILET-MIRROR



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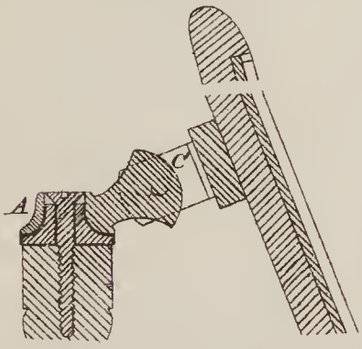

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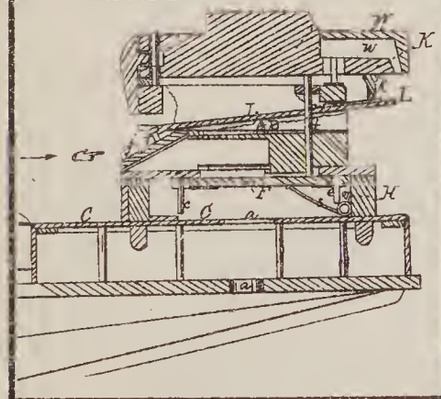

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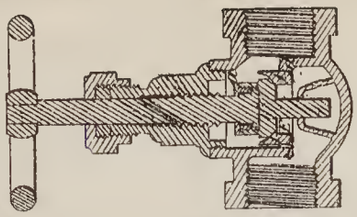
GAS-RETORT.

94,715, M. R. COLVIN.
GLOBE-VALVES.



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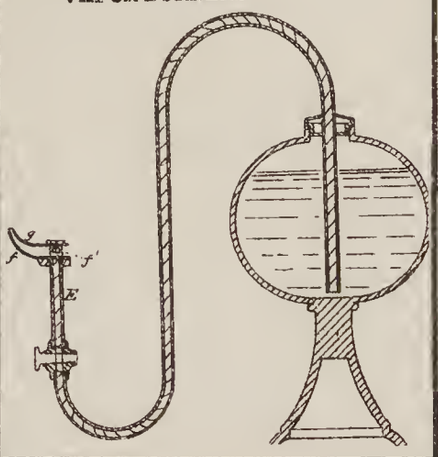

94,717 ALFRED B. COUCH.
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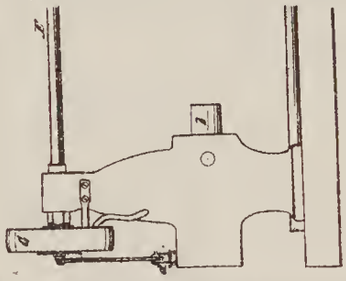

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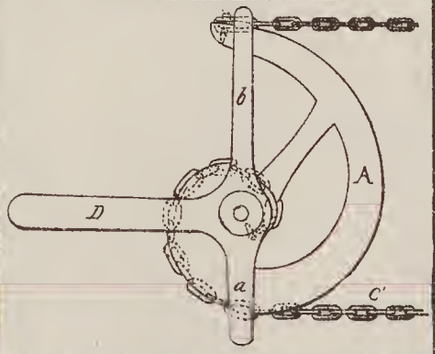

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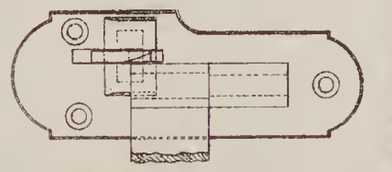
JOHN E. CRYER.
BLIND-FASTENING.



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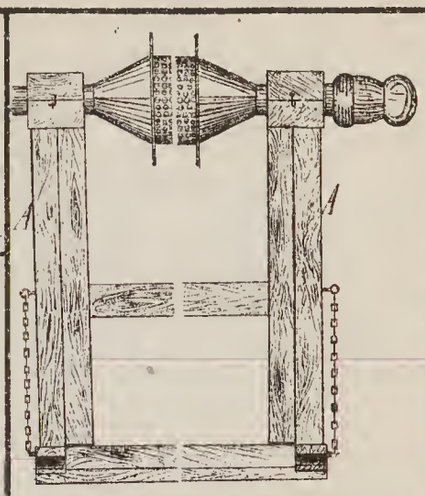
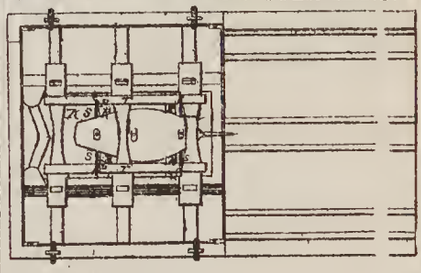
EDWARD FITZKI.
CLOTH-SPONGING MACHINES.



94,721 E. MORTIMER DEEY.
TRANSPORTING SHIPS OVER LAND.



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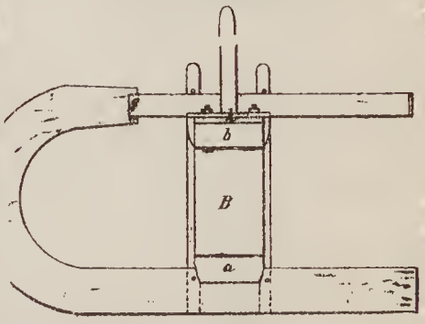
VAPOR-BURNERS.

94,723, LYMAN R. DEXTER.
SLED-CLAMP.



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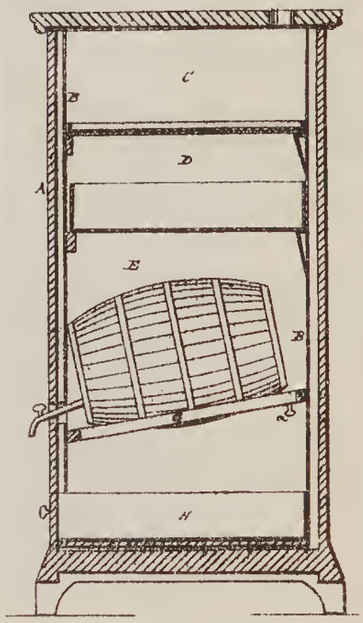
REFRIGERATOR.



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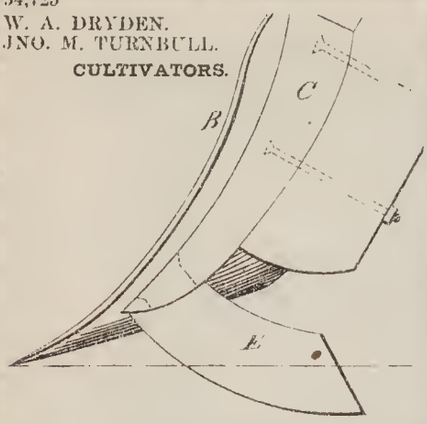
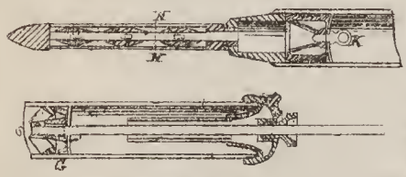
W. A. DRYDEN.
JNO. M. TURNBULL.
CULTIVATORS.

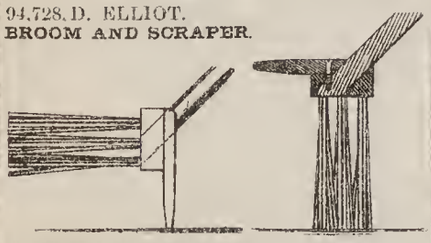


94,726. A. K. EATON
MANUFACTURE OF CRUCIBLES

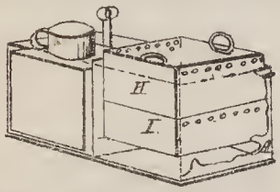
94,727 JACOB EDSON **TUBULAR WELLS**



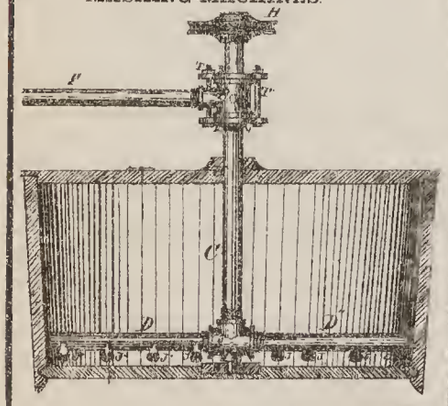
94,728. D. ELLIOT.
BROOM AND SCRAPER.



94,729 MICHEL G. FAGAN. **LUNCH-BOX.**



94,730. LOYAL C. FIELD.
MASHING-MACHINES.



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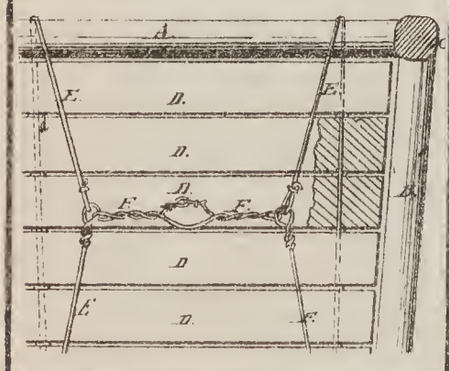
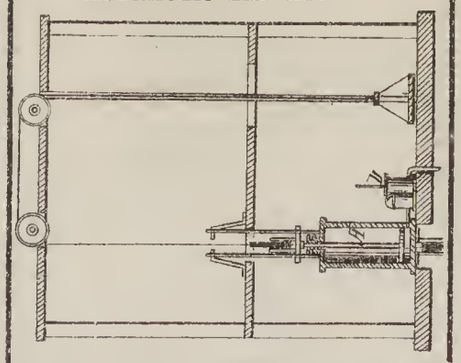
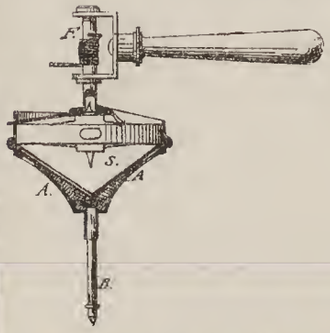


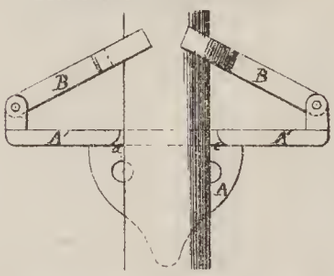
94,732. HENRY FLAD.
HYDRAULIC ELEVATOR.



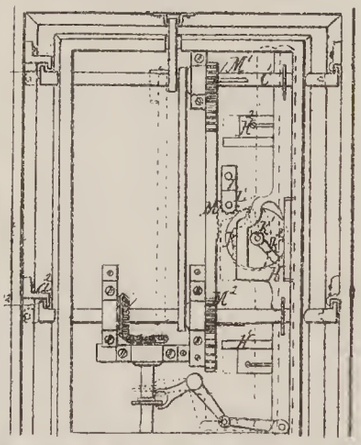
94,733 LUDWIG OTTMAR FRANKE.
SPINNING-TOP.



94,734, HENRY L. FRANKLIN.
EUGENE CLARK.
BROOM OR MOP-HOLDER.

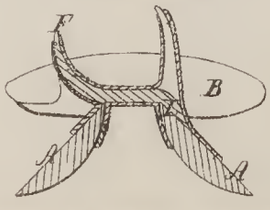


94,735, OWEN GALLAGHER.
DOOR-BOLTS FOR SAFES.

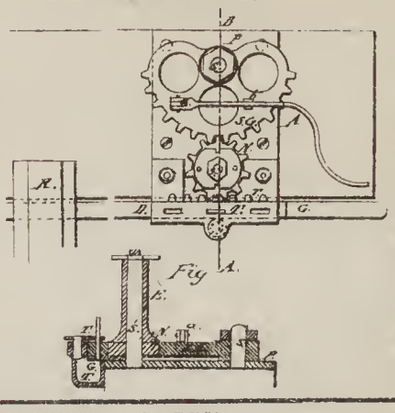


94,736, HENRY A. GARVEY.
ARTIFICIAL MARBLE OR PLASTIC MATERIAL.

94,737, JOHN T. GATHRIGHT.
JOHN C. FREEMAN.
SIDE-SADDLE.

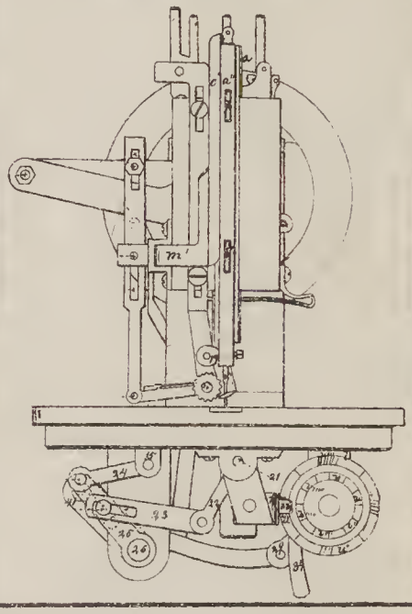


94,738, DANIEL HALDEMAN.
RAILWAY-SWITCH.

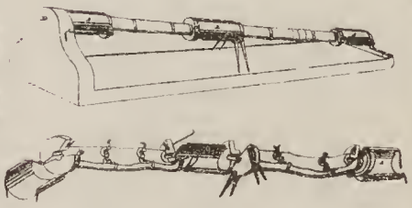


94,739. EDWD. S. HARDY.
MATERIAL FOR COVERING STEAM-BOILERS, PIPES.

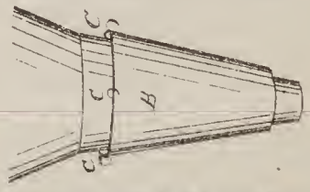
94,740, LUKE HEERY.
SEWING-MACHINE



94,741. JOHN HEUERMANN.
TUMBLING-ROD COVER.

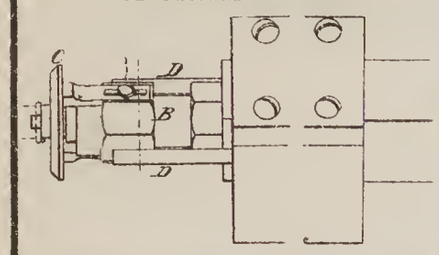


94,742, HENRY F. HILDEBRAND.
AIR-ESCAPE FUNNELS.

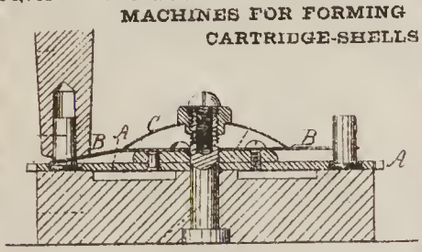


94,743. A. C. HOBBS. **PERCUSSION-CAPS.**

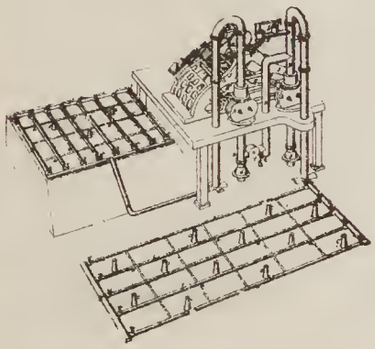
94,744. A. C. HOBBS.
FORMING EXTERNAL RECESSES IN THE HEADS OF CARTRIDGE-SHELLS.



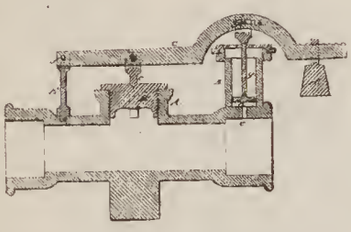
94,745 A. C. HOBBS. T. V. BOYDEN.
MACHINES FOR FORMING CARTRIDGE-SHELLS



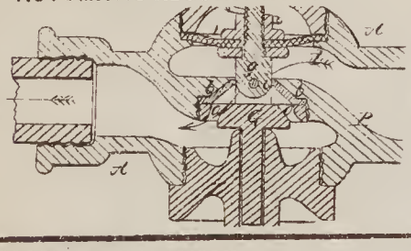
94,746 BIRDSILL HOLLY.
WATER-SUPPLIES FOR CITIES.



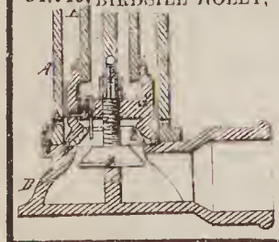
94,747. BIRDSILL HOLLY.
SAFETY-VALVES FOR WATER-PIPES.



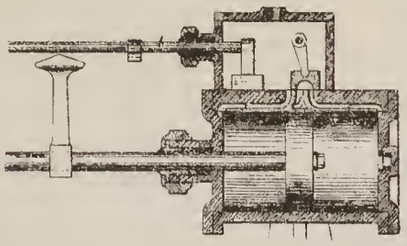
94,748. BIRDSILL HOLLY.
AUTOMATIC REGULATING-VALVES.



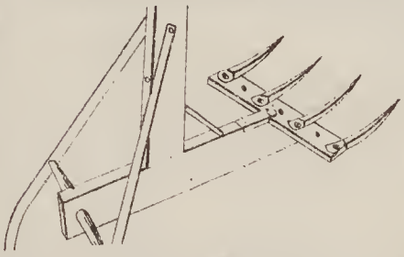
94,749. BIRDSILL HOLLY. HYDRANTS.



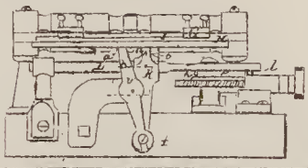
94,750 JOSEPH W. HOPKINS.
VALVES FOR STEAM-ENGINES.



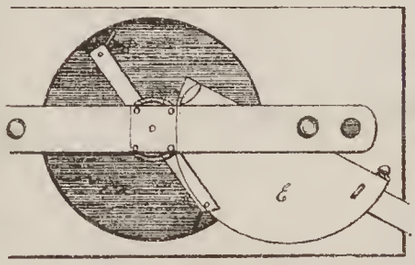
94,751 WM. HUNTER. D. M. HUNTER.
IMPROVEMENT IN SOIL-TILLER.



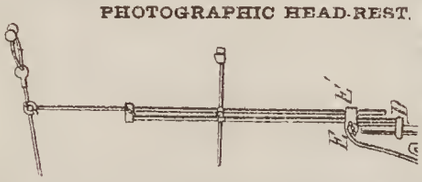
94,752. OLIVER P. HUSSEY.
DRAWING-FRAME.



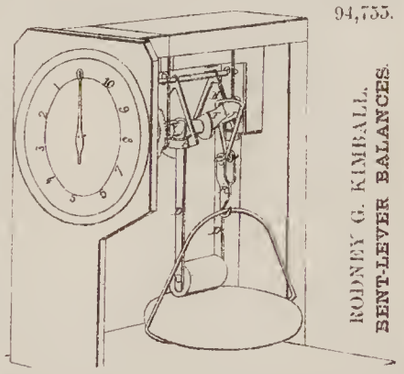
94,753. WM. C. KEMP. CHURNS



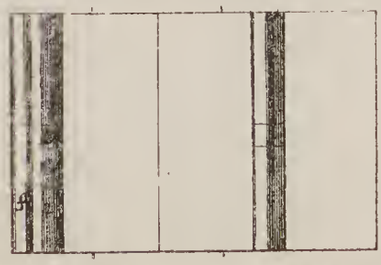
94,754 WILEY KENYON.
PHOTOGRAPHIC HEAD-REST.



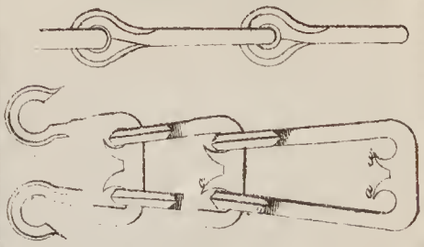
94,755.
RODNEY G. KIMBALL.
BENT-LEVER BALANCES.



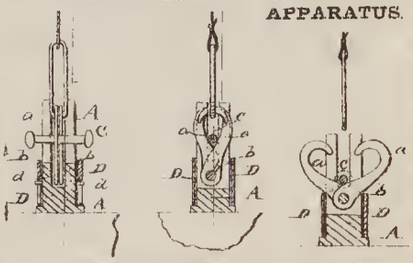
94,756. JEFFERSON KINDLEBERGER.
WILLIAM AUGUSTUS ARNOLD.
IMPROVED REVERSIBLE BUT.



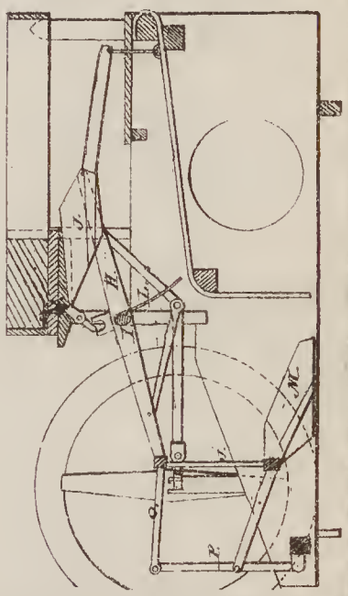
94,757 CHESTER KING
S. P. JOHNSON. FLAT CHAIN.



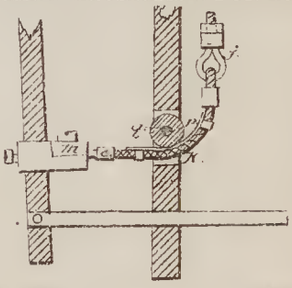
94,758 JOHN H. KINGSLAND.
AUTOMATIC BOAT-DETACHING APPARATUS.



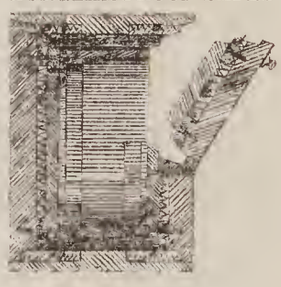
94,759.
ALFRED S. LINEBACK.
WATER-POWER.

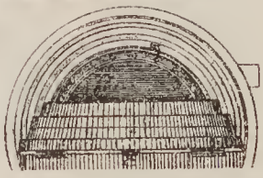


94,760 OLIVER D. LOMBARD.
PICKING-MECHANISM FOR LOOMS.

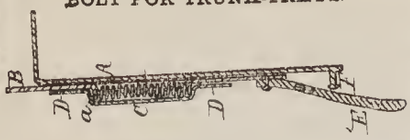


94,761 WM. McFARLAND
BURGLAR-PROOF SAFES

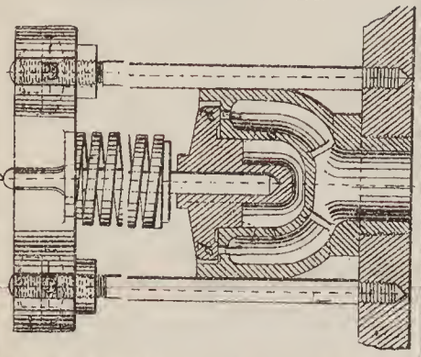




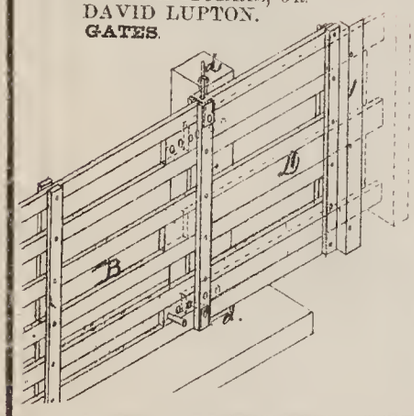
94,762, R. McMURRAY.
BOLT FOR TRUNK-TRAYS.



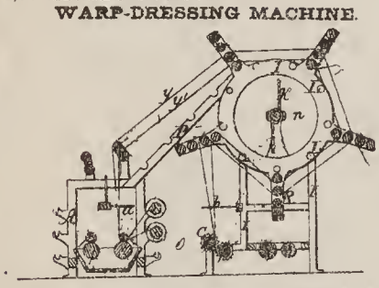
94,763, GEO. F. MORSE.
STEAM SAFETY-VALVES.



94,764, GERSHOM MOTT.
JOSHUA MORRIS, JR.
DAVID LUPTON.
GATES.

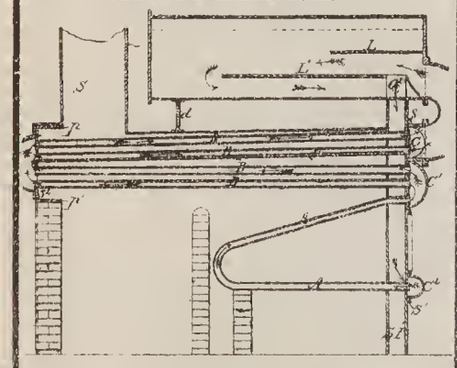


94,765, MOSES NELSON.
WARP-DRESSING MACHINE.

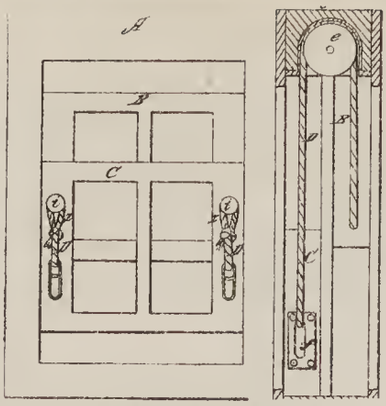


94,766, WM. PATTON.
B. C. ENGLISH.
COMBINED WATCH-KEY AND KEY-RING.

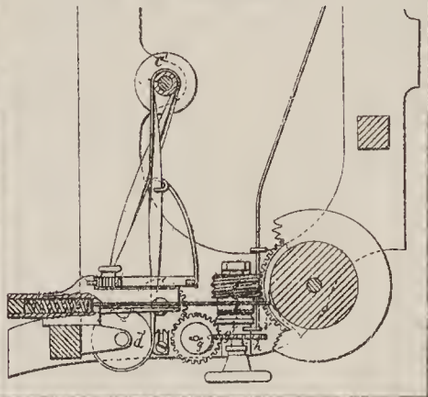
94,767, LEONARD PHLEGER.
STEAM-GENERATORS.



94,768 W. H. PILGRIM.
SASH-BALANCE.

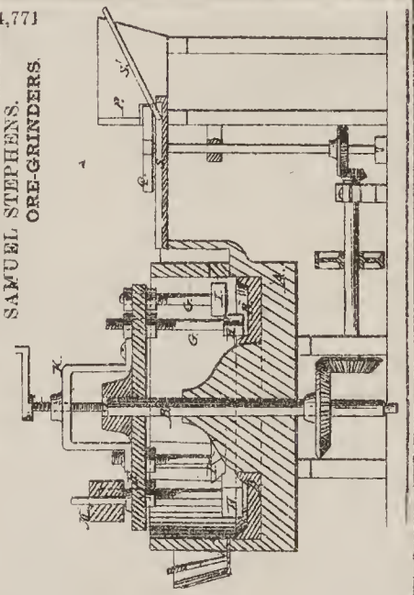


94,769, WILLIAM POTTER.
LEONARD J. LABOUNTY.
LET-OFF MECHANISM FOR LOOMS.

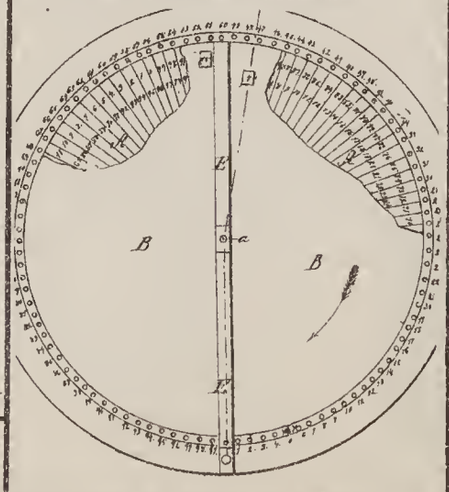


94,770 CANCELED.

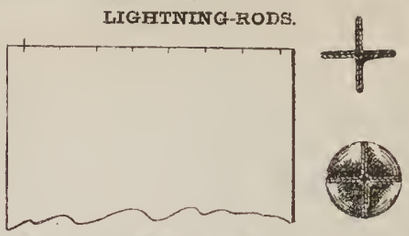
94,771
JOSEPH W. V. RAWLINS.
SAMUEL STEPHENS.
ORE-GRINDERS.



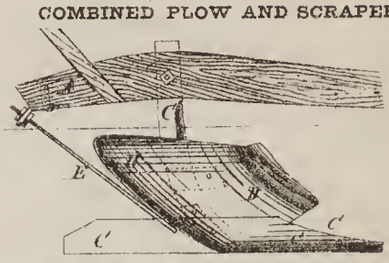
94,772 J. H. R. REFFELT.
CALCULATING-MACHINE.



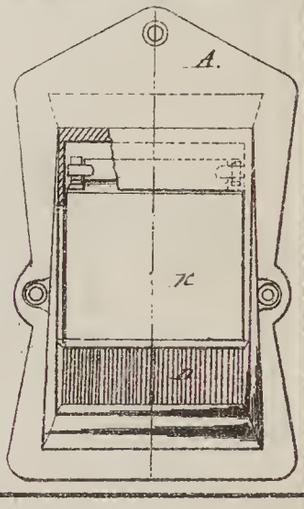
94,773 WILLIAM S. REYBURN.
F. J. MARTIN.
LIGHTNING-RODS.



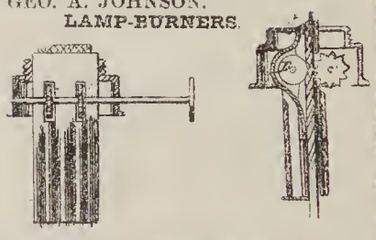
94,774, J. REYNOLDS.
COMBINED PLOW AND SCRAPER.



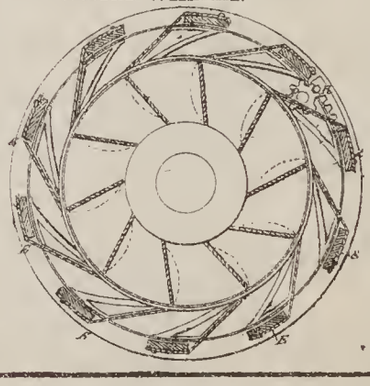
94,775
HIRAM RICHMOND.
MATCH-SAFES.



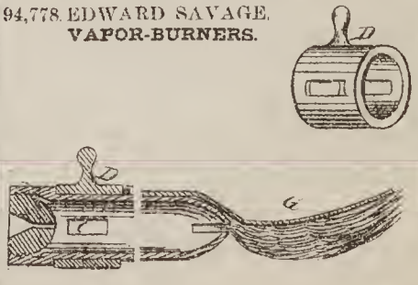
94,776 WILLIAM F. RIPPON.
GEO. A. JOHNSON.
LAMP-BURNERS.



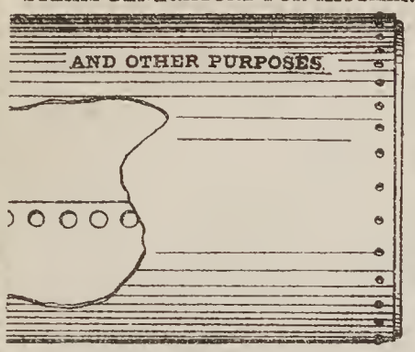
94,777 REUBEN R. ROYER.
WATER-WHEELS.



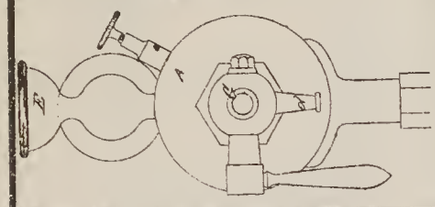
94,778 EDWARD SAVAGE.
VAPOR-BURNERS.



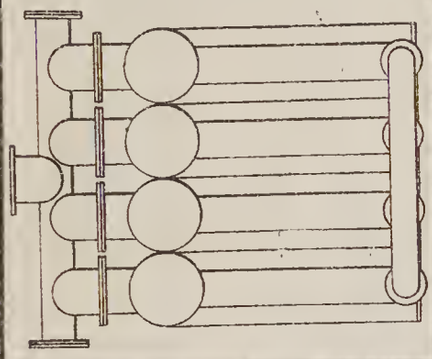
94,779. W. B. SCAIFE.
STEAM-GENERATORS FOR KITCHEN AND OTHER PURPOSES.



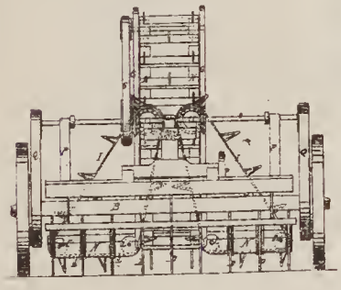
94,780 NICHOLAS SEIBERT.
LUBRICATORS



94,781, THOMAS SHAW.
STEAM-GENERATORS

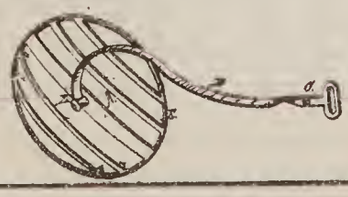


94,782, ANDREW SHELINE.
HAY-RAKER AND LOADER.



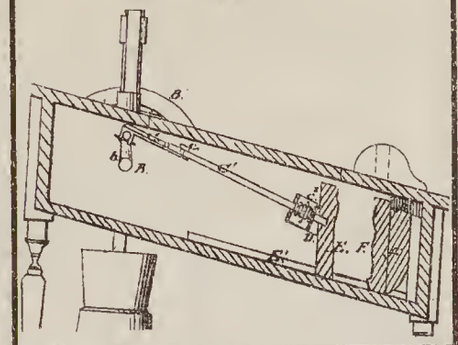
94,783, EDWIN R. SHEPARD.
RAILWAY-RAIL FASTENING.

94,784, LEWIS H. SHULAR.
CLOD-TENDERS FOR GROWING PLANTS.

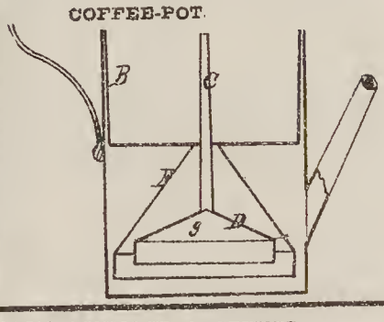


94,785. J. W. SMITH.
COMPOSITION FOR PAVING.

94,786, JUSTUS SMITH.
WASHING-MACHINES.



94,787, O. F. STEDMAN.
COFFEE-POT.



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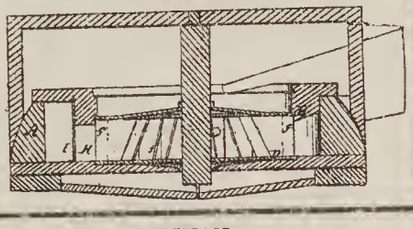
SCROLL WATER-WHEELS.



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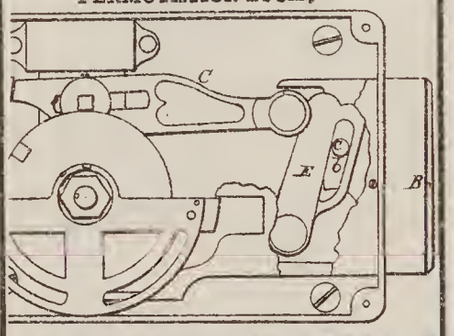
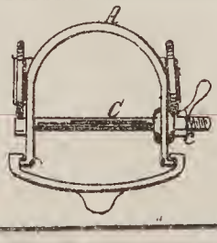
PERMUTATION-LOCKS.



94,790, HENRY SUTLIFF.
POST-HOLE EXCAVATORS.



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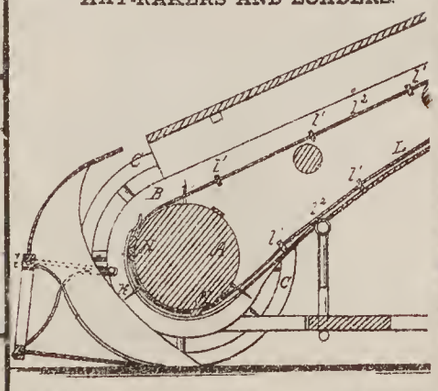
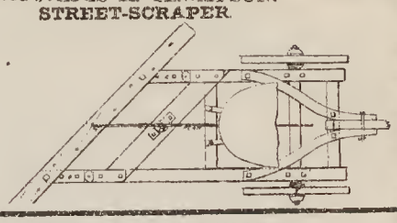
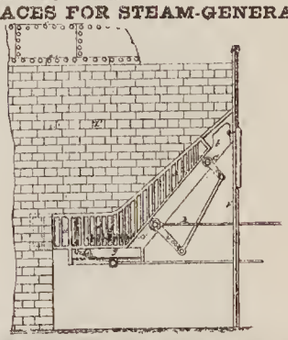
JOHN R. ISDELL.
HAY-RAKERS AND LOADERS.



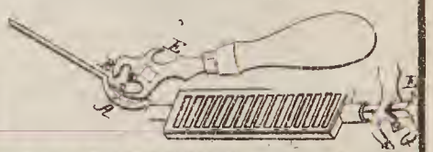
94,792 JAMES K. THOMPSON.
STREET-SCRAPER.



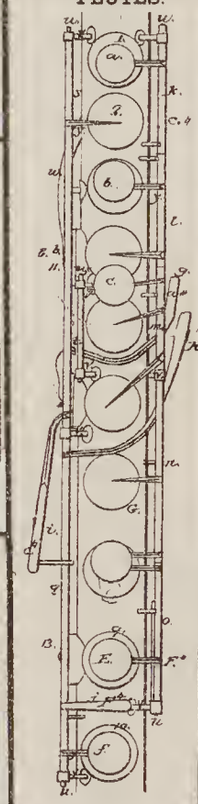
94,793 MATTHEW TILDESLEY.
JAMES BIRD.
FURNACES FOR STEAM-GENERATORS.



94,794 SYLVENUS WALKER.
STOVE-COVER LIFTER.



94,795 OSCAR J. G. WARDRUM.
FLUTES.



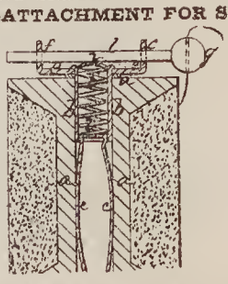
94,796 SYLVESTER W. WARREN.
LAMP-BURNERS.

94,797 Z. C. WARREN.
SIZING H. C. HULBERT.
FOR PAPER MANUFACTURERS.

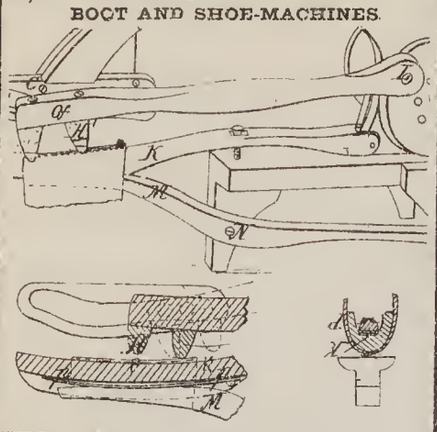
94,798
GEORGE WATTIS.
TOILET-MIRROR.

94,799 H. WEBSTER.
PROCESS OF RECTIFYING AND REFINING WHISKEY AND OTHER SPIRITS.

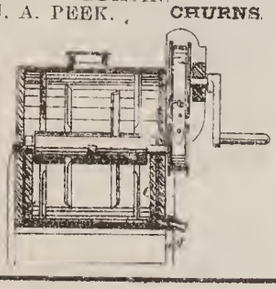
94,800 MARCUS BROWN WESTHEAD.
ROBERT SMITH.
TENSION-ATTACHMENT FOR SPOOLS.



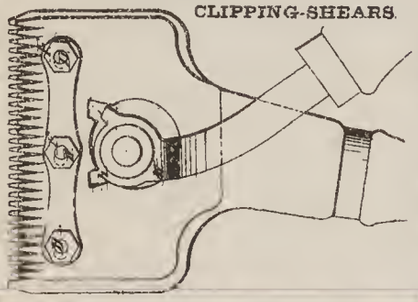
94,801 J. E. WIGGIN
BOOT AND SHOE-MACHINES.



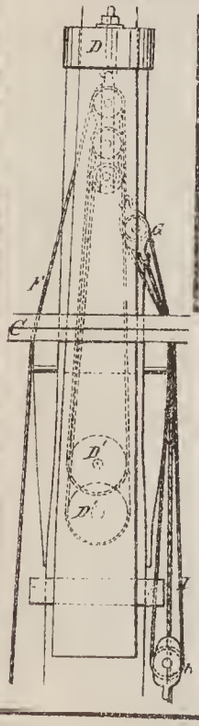
94,802, J. H. WILDASIN.
J. A. PEEK.
CHURNS.



94,803, JOHN C. WILSON.
ADAM WALKER,
JOHN FOSTER.
CLIPPING-SHEARS.

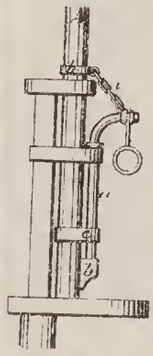


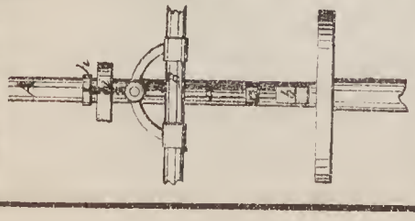
94,804, WILLIAM WINCHESTER.
PURCHASE FOR HOISTING AND LOWERING TOP-MASTS OF VESSELS.



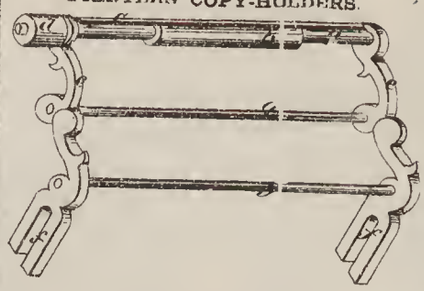
94,805, IRA WOOD.
COMPOSITION OF LIQUIDS FOR TANNING.

94,806,
JOS. B. WOODBURY.
METHOD OF HANGING TOP-SAIL YARDS

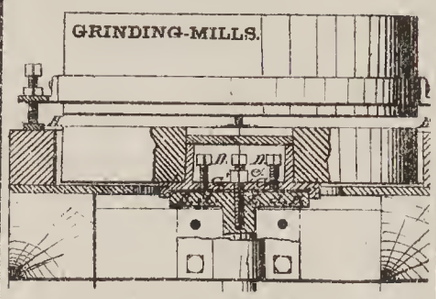




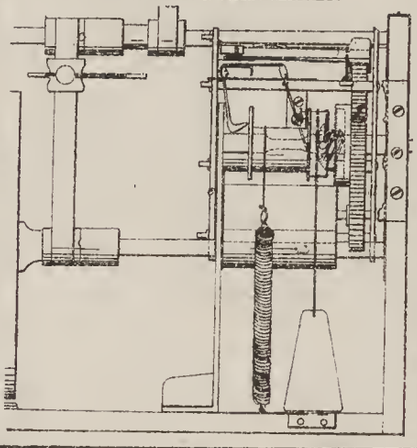
94,807 W. H. YOUNG.
CHAS. J. YOUNG.
PRINTERS' COPY-HOLDERS.



94,808, ABRAHAM BRIGGS.
GRINDING-MILLS.



94,809 WM. Z. W. CHAPMAN.
PROPELLING MACHINER



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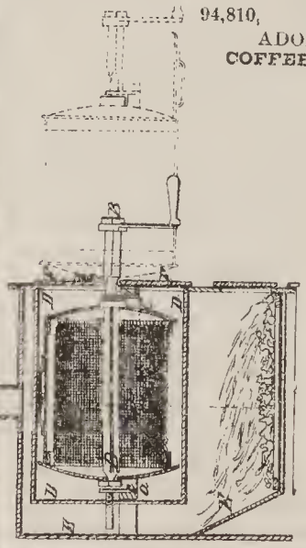
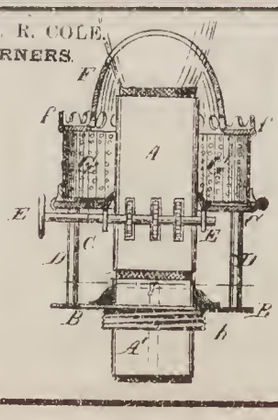
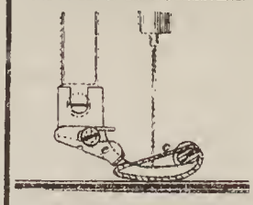
ADOLF COHN.
COFFEE-ROASTER.



94,811 JAS. R. COLE.
LAMP-BURNERS.

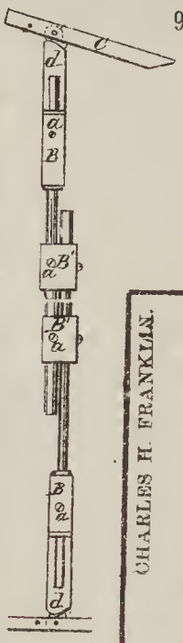


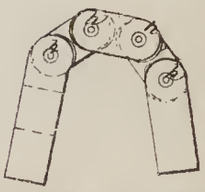
94,812.
F. B. CONTESSA.
PRESSER-FOOT FOR SEWING-MACHINES.



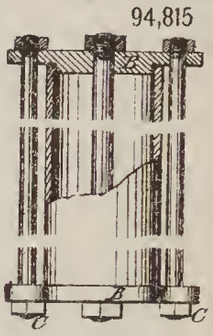
94,813 JAMES DICKEY.
TORPEDOES FOR OIL-WELLS.

94,814
JOEL FALES.
FLOOR-GAUGE.

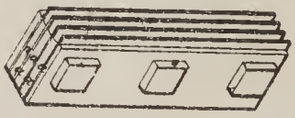




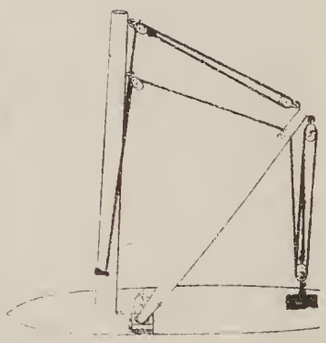
94,815
CHARLES H. FRANKLIN.



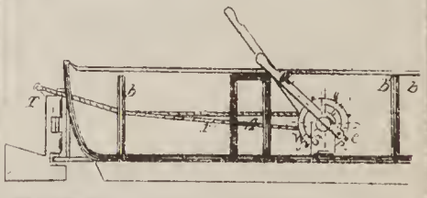
94,816 PHINEAS FROST. GRINDING-PLATE FOR PAPER-PULP ENGINES



94,817 EBENEZER G. GREEN
HOISTING-APPARATUS.

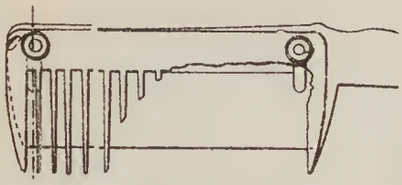


94,818 G. HABERLAND.
FLOATING VELOCIPEDES.

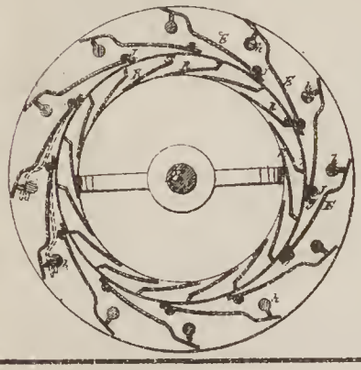


94,819, JOHN L. S. HALL.
COMPOUND FOR CURING CORNS BUNIONS, &c.

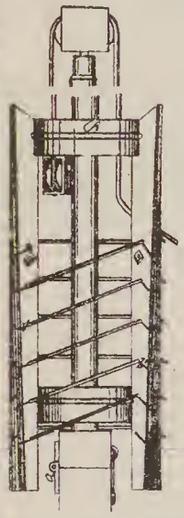
94,820. GEORGE A. HARLEY.
HAIR-CUTTERS.



94,821. JOSEPH HATHAWAY.
WATER-WHEELS.

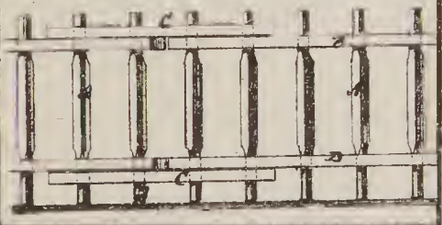


94,822. MARTIN R. HELIKER.
CLOTHES-DRIER.

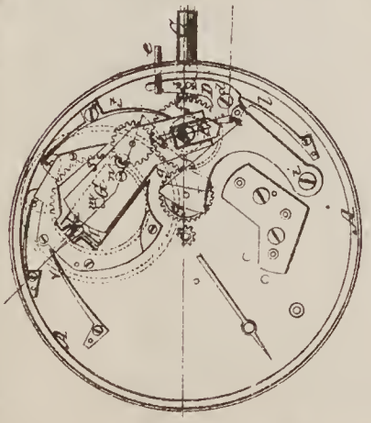


94,823. JAS. R. HENDRICKS.
AXLE-BOX.

94,824. H. N. HILL.
PICKET-FENCE.

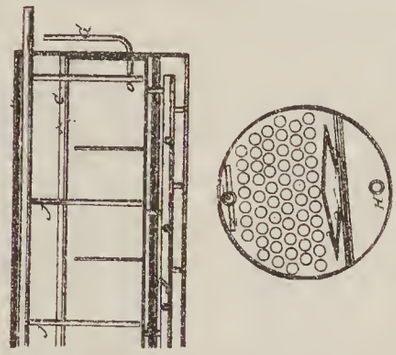


94,825 VITALIS HIMMER.
STEM-WINDING AND SETTING ATTACHMENT TO WATCHES

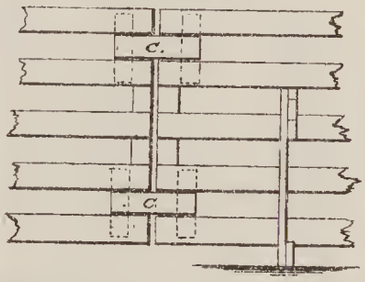


94,826,
CANCELED.

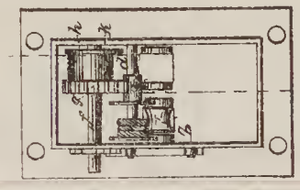
94,827, LEVI S. IVES.
STEAM-GENERATORS.



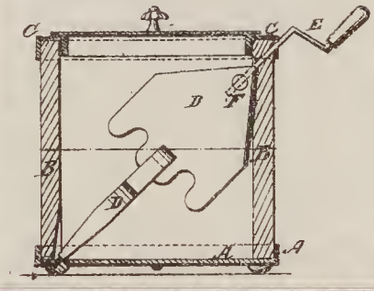
94,828, CHAS. E. JOHNSON.
PORTABLE FENCE.



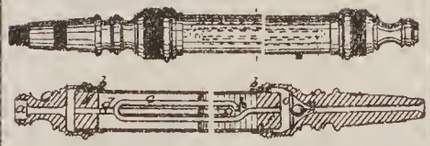
94,829, JACOB G. JONES.
SASH-BALANCE.



94,830, JAMES KING
CHURNS.

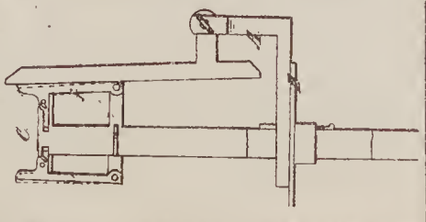


94,831 EDUARD LARSSEN.
TOBACCO-PIPE STEM.

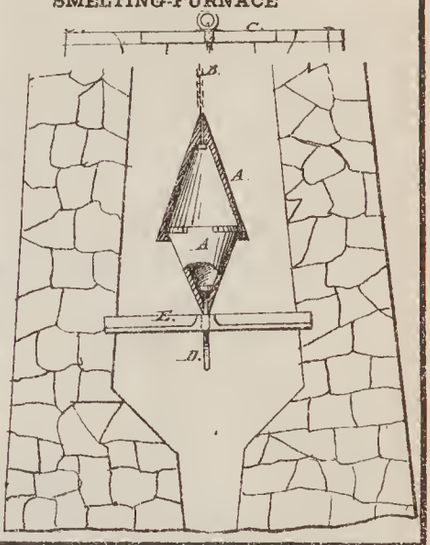


94,832, R. O. LOWREY.
COMPOUND OF HARD RUBBER AND FIBROUS MATERIAL.

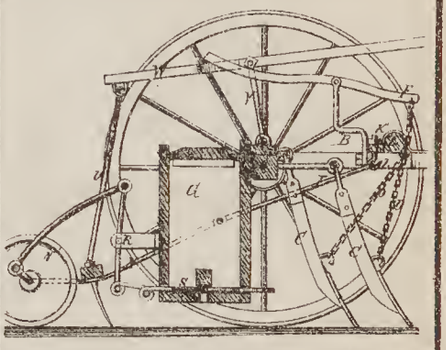
94,834, MODEST MERK.
CARRIAGE-AXLE GAUGES.



94,833. WM. A. MADARA.
SMELTING-FURNACE

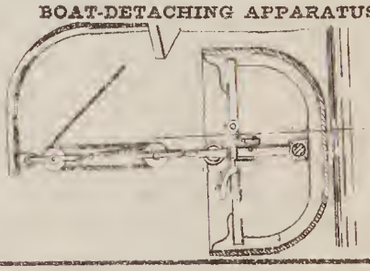


94,835, A. J. MISENHIMER.
PLANTER AND CULTIVATOR.

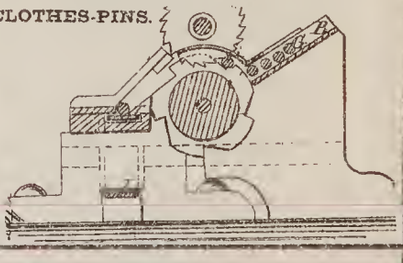


94,836 CANCELED.

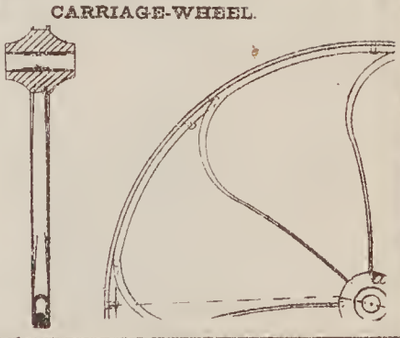
94,837, CHAS. H. NYE.
BOAT-DETACHING APPARATUS



94,838, A. J. OCKINGTON.
MACHINERY FOR MAKING CLOTHES-PINS.

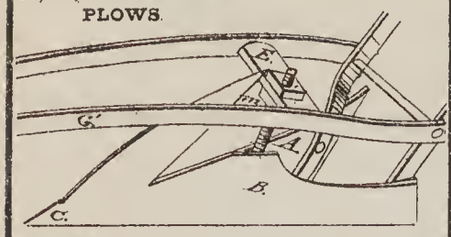


94,839, JOHN A. REED.
CARRIAGE-WHEEL.

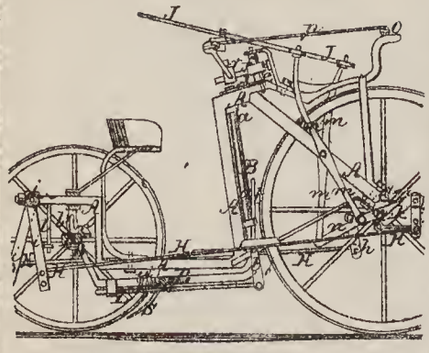


94,840, PIERRE RIUYPEYROU.
TOOTH-WASH.

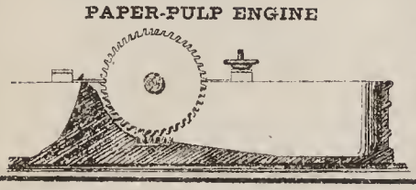
94,841, N. ROBINSON. **PLOWS.**



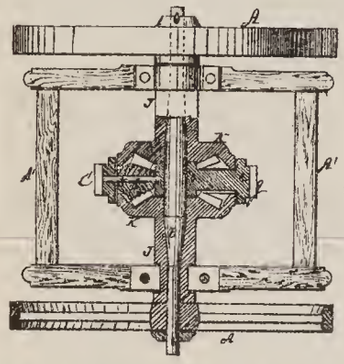
94,842, M. L. ROOD. **VELOCIPEDE.**



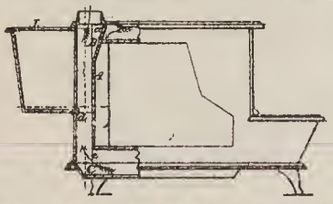
94,843, PELEG ROSE. **PAPER-PULP ENGINE**



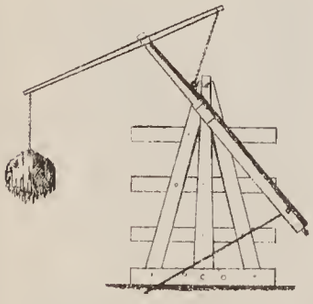
94,844, T. SALISBURY. **ARRANGEMENT OF GEARING FOR DRIVING AGRICULTURAL MACHINERY.**



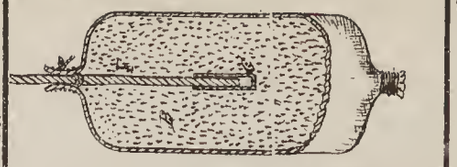
94,845, ROBT. SCORER. **COOKING-STOVE**



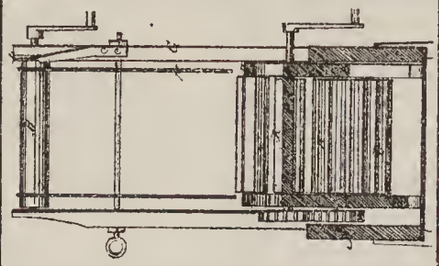
94,846, J. G. SEHORN. **HAY-LOADERS.**



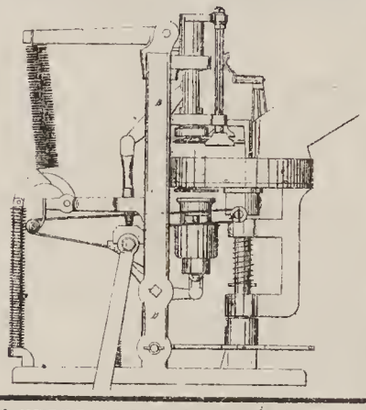
94,847, TAL. P. SHAFFNER. **CARTRIDGE FOR ARTILLERY AND BLASTING.**



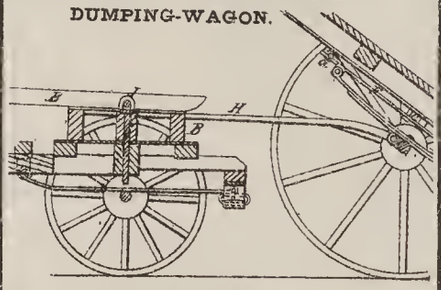
94,848, ORIN SKEEL. **WASHING AND WRINGING-MACHINE.**



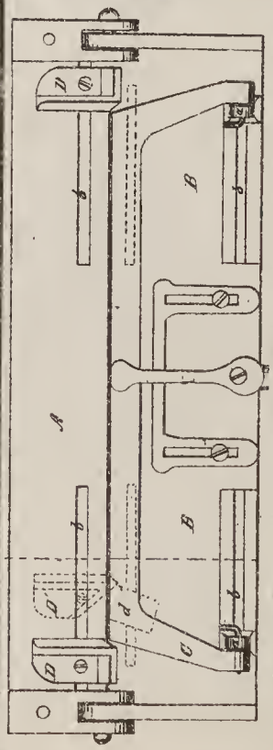
94,849, THOS. J. SLOAN. **PORCELAIN-KNOB MACHINES.**



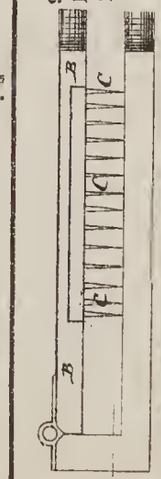
94,850, WILLIAM H. STEARRETT. **DUMPING-WAGON.**



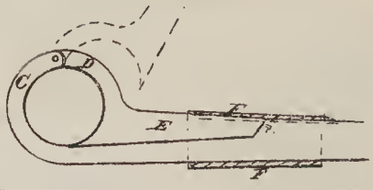
94,851, W. A. TARBUTTON. **MACHINES FOR FORMING SHEET-METAL PANS.**



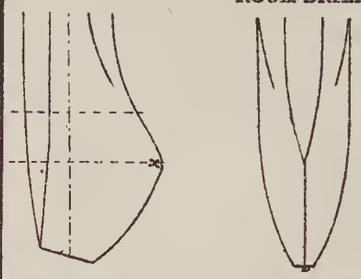
94,852, HORACE THOMPSON. **BEEFSTEAK-CRUSHER.**



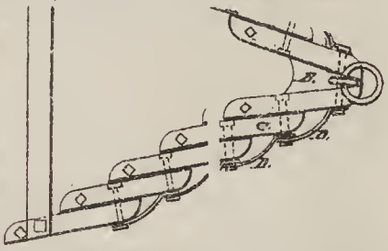
94,853, THOMAS C. WALTER. **THILL-COUPLINGS.**



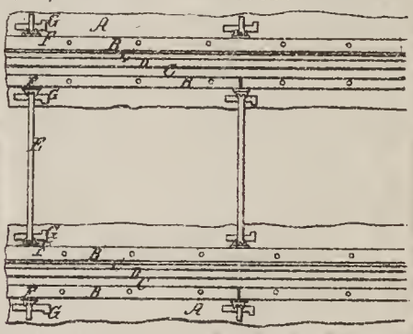
94,854, JOHN M. WHARTNABY. **ROCK-DRILL.**



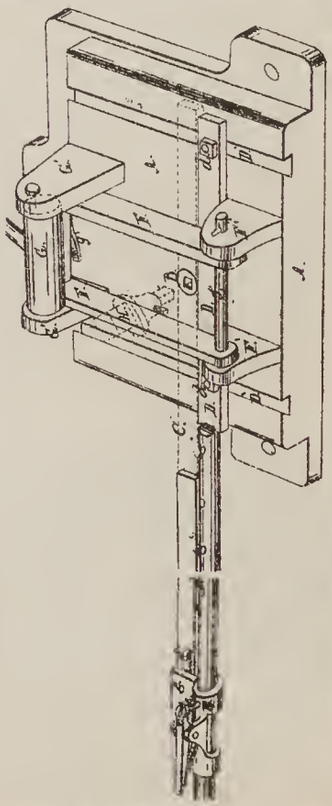
94,855, JAMES H. WILLIAMS. **HARROWS.**



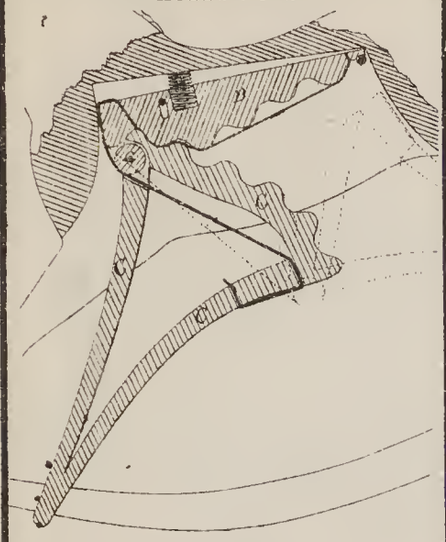
94,856, CHARLES G. WILSON. **RAILWAY.**



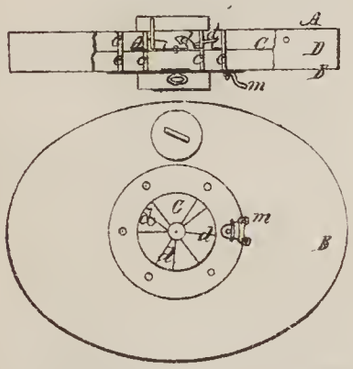
94,857, JOSEPH ALLONAS. **MACHINE FOR PUNCHING METAL.**



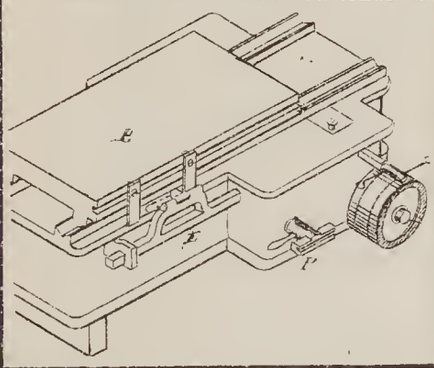
94,858 LAURITZ ANDERSON.
HOBBY-HORSE.



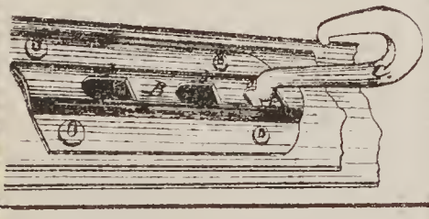
94,859, CHARLES H. BAGLEY.
CHAS. E. MASON.
IN STOVE-PIPE SHELVES



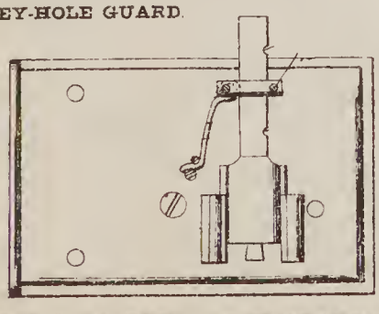
94,860 R. A. BELDEN. E. H. CUTLER.
MACHINES FOR PLANING METALS.



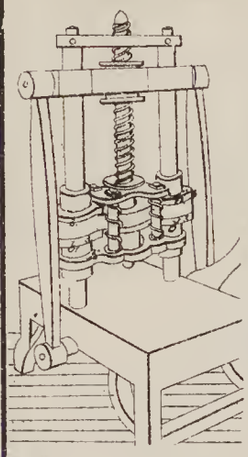
94,861 ADOLPH BERND
GUSTAV BERND. ABNER his mark WHITE.
HARNESS-FASTENING.



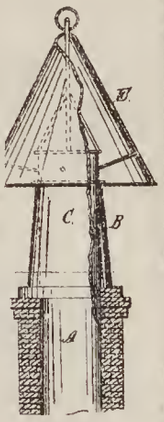
94,862, DAVID P. BIRD.
KEY-HOLE GUARD.



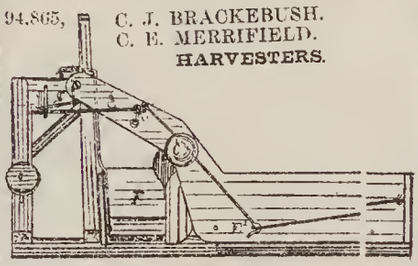
94,863, JOHN BIRD.
PRESS FOR MOULDING GLASSWARE.



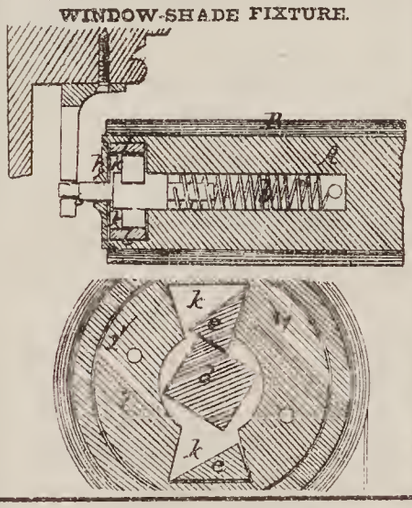
94,864,
THOMAS BOYD
CHIMNEY-TOP.



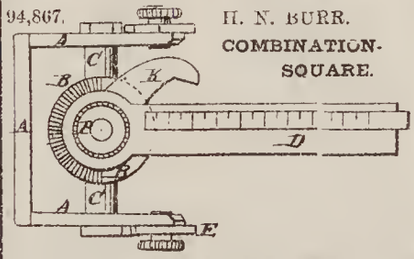
94,865, C. J. BRACKEBUSH.
C. E. MERRIFIELD.
HARVESTERS.



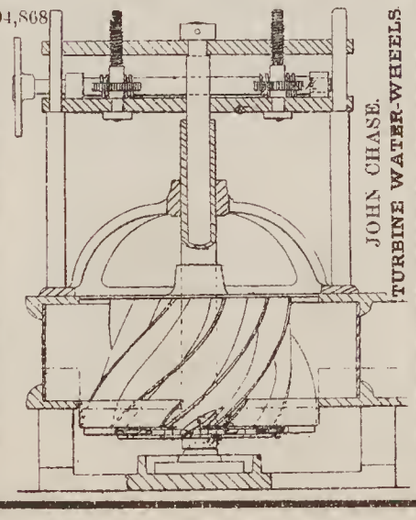
94,866, JABEZ BURNS.
WINDOW-SHADE FIXTURE.



94,867, H. N. BURR.
COMBINATION-SQUARE.

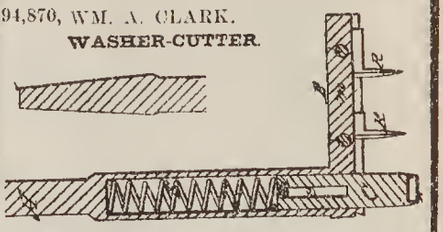


94,868 JOHN CHASE.
TURBINE WATER-WHEELS.

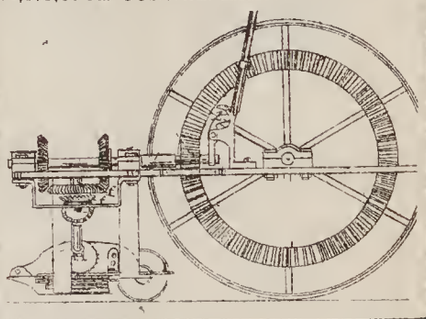


94,869, E. W. CLARK.
SOLUTION FOR THE TREATMENT OF WOOD.

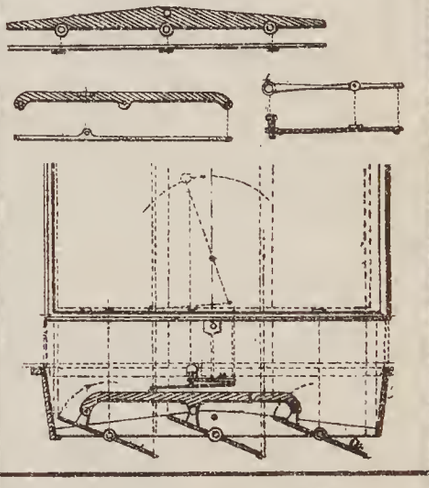
94,870, WM. A. CLARK.
WASHER-CUTTER.



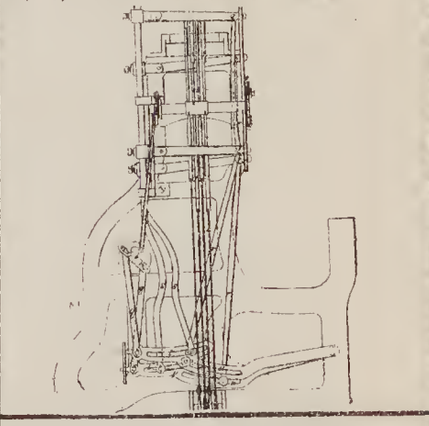
94,871, J. M. CONNEL. HARVESTERS



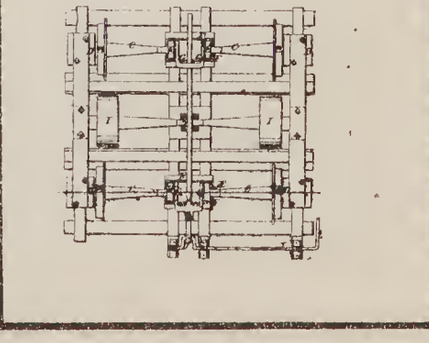
94,872, WM. G. CREAMER.
HOT-AIR REGISTER.



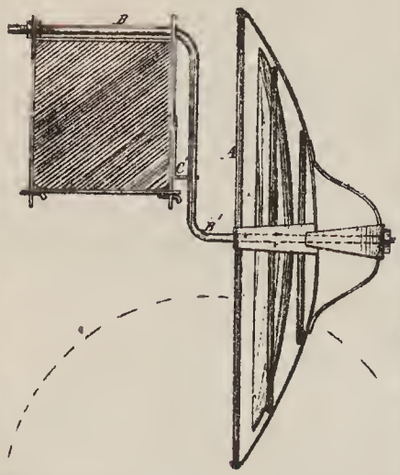
94,873, GEO. CROMPTON. LOOMS.



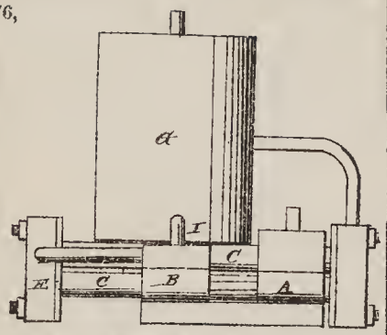
94,874, LANCELOT DAVIDSON.
CHANGEABLE-GAUGE RAILWAY-CAR TRUCK.



94,875, LOYAL M. DODDRIDGE. ROTARY CLOD-FENDER

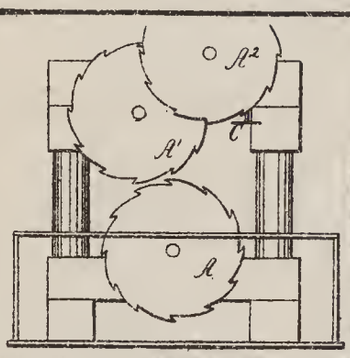


94,876, FRANCIS B. DUNN. STEAM-GENERATORS.

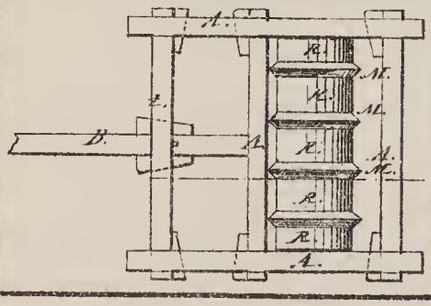


94,877. LEVI S. ENOS. SHEET-METAL FOR ROOFING AND FOR OTHER PURPOSES.

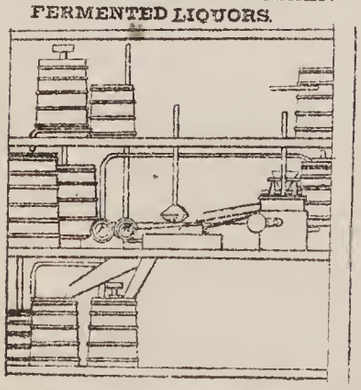
94,878, DAVID EVANS. CIRCULAR SAW-MILL.



94,879, ELIHU EVANS. SECTION-ROLLER AND MARKER COMBINED.



94,880, J. FIRMENICH. MANUFACTURE OF BEER, ALE AND OTHER FERMENTED LIQUORS.

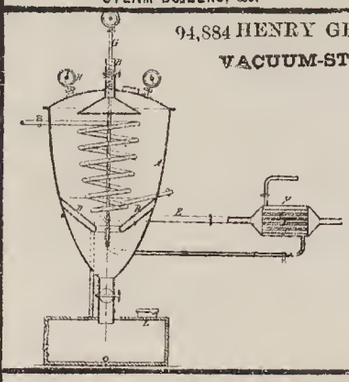


94,881, T. J. FLAGG SUSPENDER-ENDS.

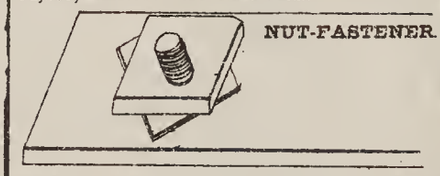
94,882, WILLIAM A. FRENCH. COMPOUND FOR COATING THE SURFACES OF STEAM-BOILERS, &c.

94,883. WILLIAM A. FRENCH. COMPOUND FOR COATING THE SURFACES OF STEAM-BOILERS, &c.

94,884 HENRY GROGAN. VACUUM-STILL

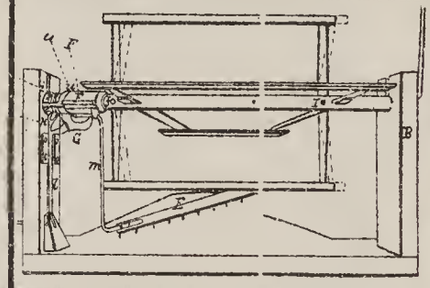


94,885, MANASSEH GROVER. NUT-FASTENER.

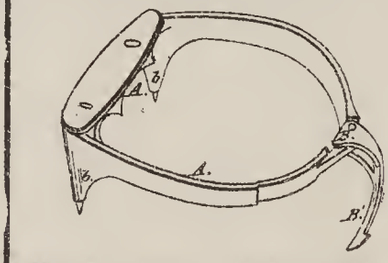


94,886, C. L. HAMMOND. MEDICAL COMPOUND.

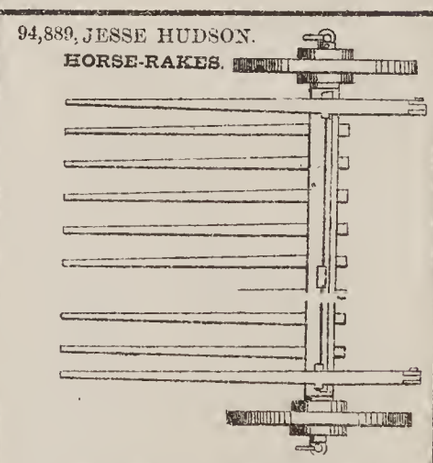
94,887. A. B. HITCHCOCK. RAKE AND REEL FOR HARVESTERS.



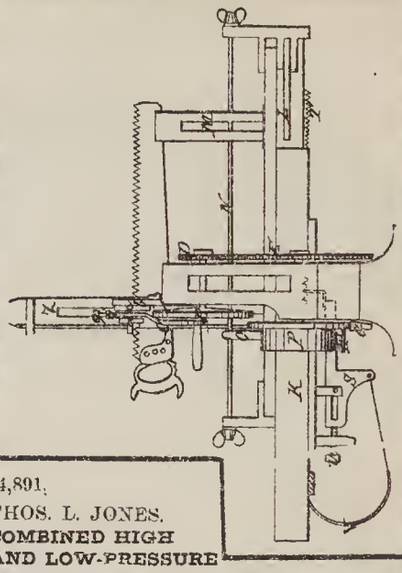
94,888, C. HOËLLER. ICE-CREEPER.



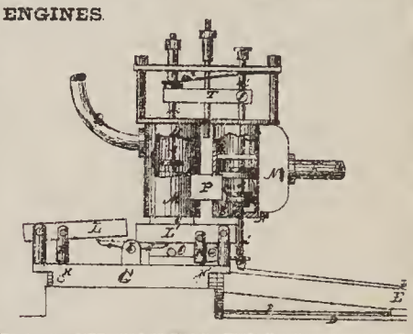
94,889, JESSE HUDSON. HORSE-RAKES.



94,890, THOMAS M. HUSTIN. MACHINE FOR FILING SAWS.



94,891, THOS. L. JONES. COMBINED HIGH AND LOW-PRESSURE ENGINES.



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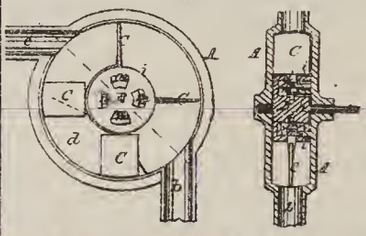
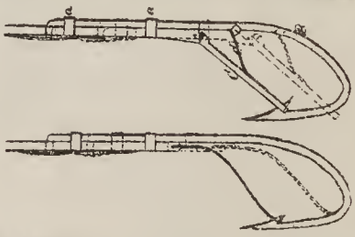
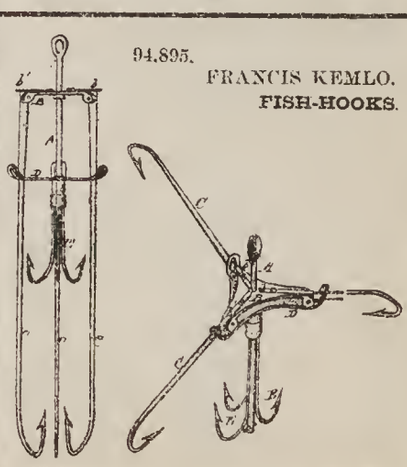


94,893 FRANCIS KEMLO. FISH-HOOKS.



94,894, FRANCIS KEMLO. FISH-HOOKS.

94,895. FRANCIS KEMLO. FISH-HOOKS.



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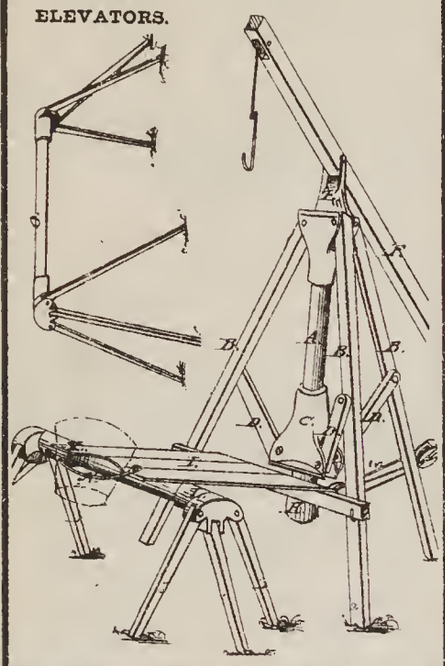
ELEVATORS.



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94,898. J. F. LAFROGNE.
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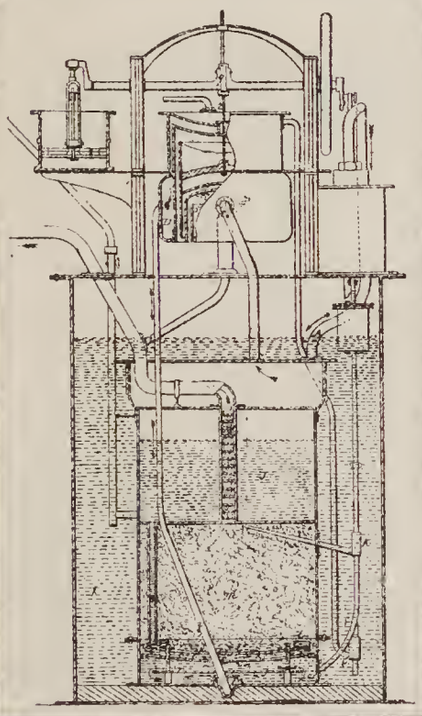

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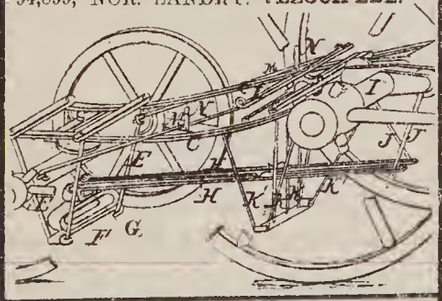

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WILLIAM LEONARD
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94,901, NATHANIEL B. LEWIS.
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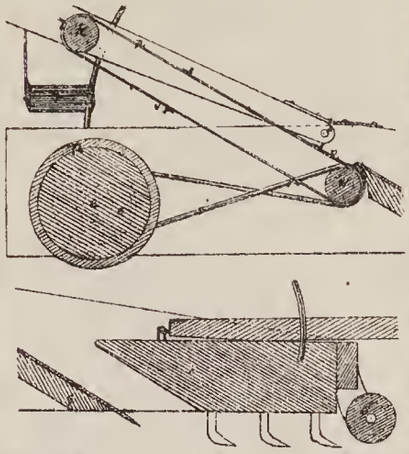

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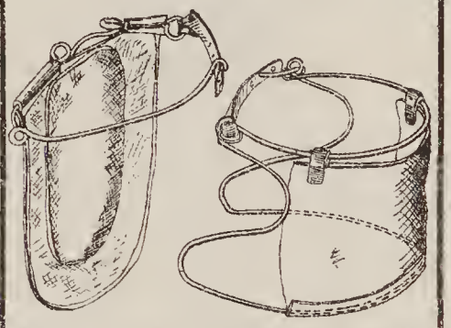

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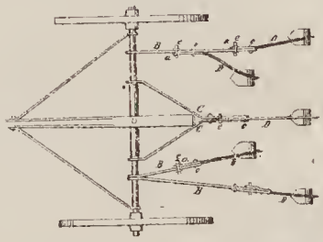

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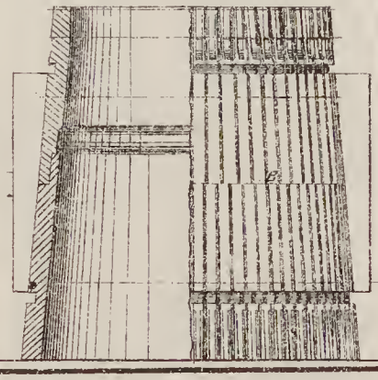

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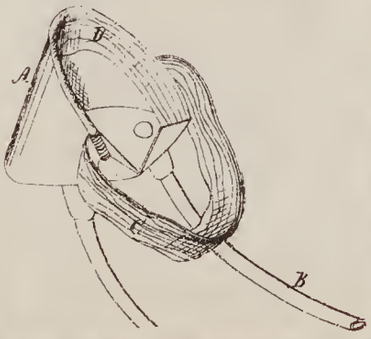

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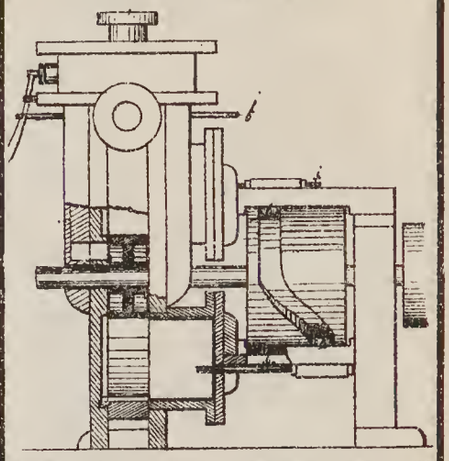

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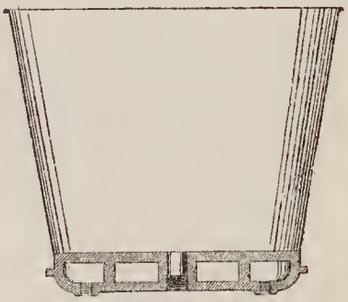
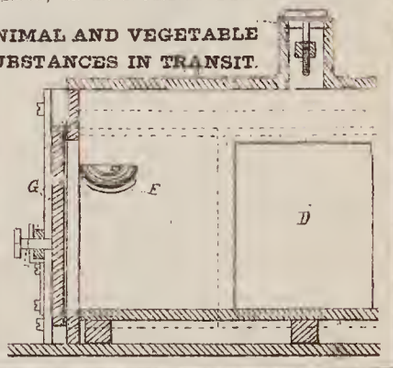
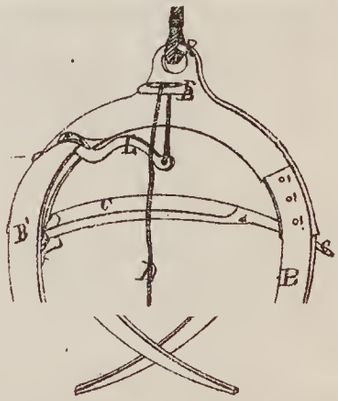


94,908, E. R. NORNY. **PRESERVING ANIMAL AND VEGETABLE SUBSTANCES IN TRANSIT.**



94,909. J. A. PARK. **HORSE HAY-FORK.**



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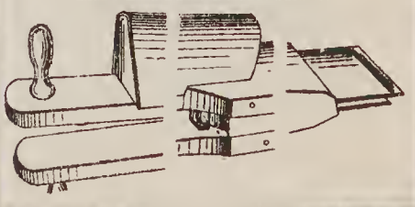

94,911. WILLIAM QUANN.
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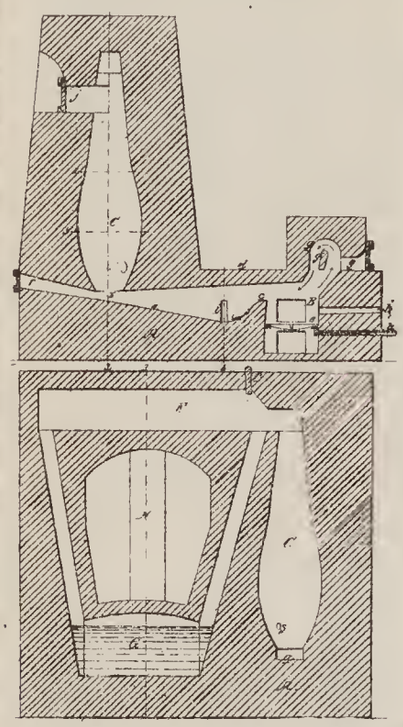

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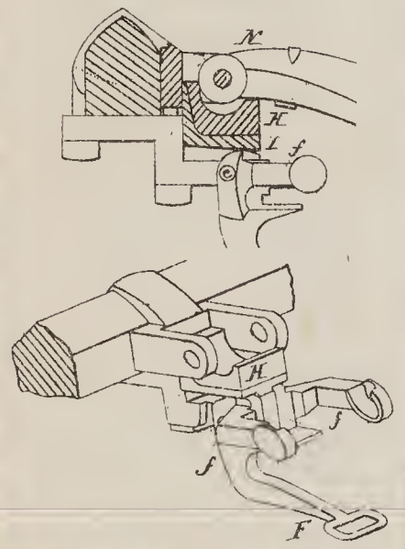

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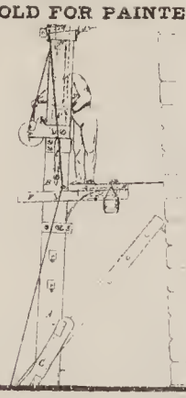

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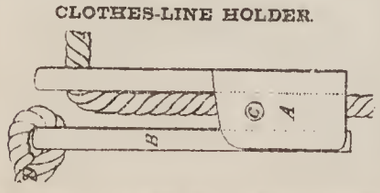

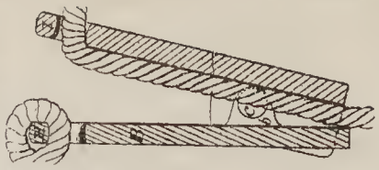

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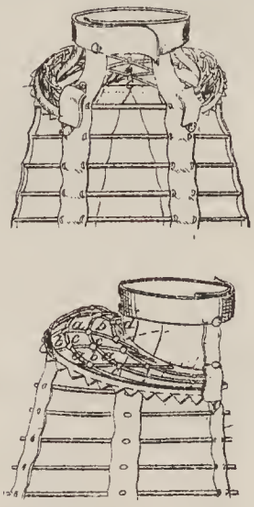

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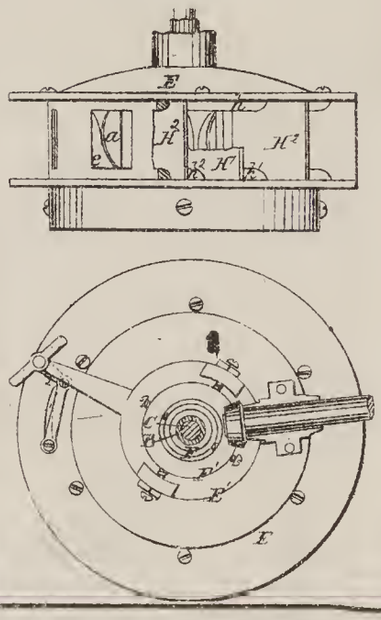
WATER-WHEELS.



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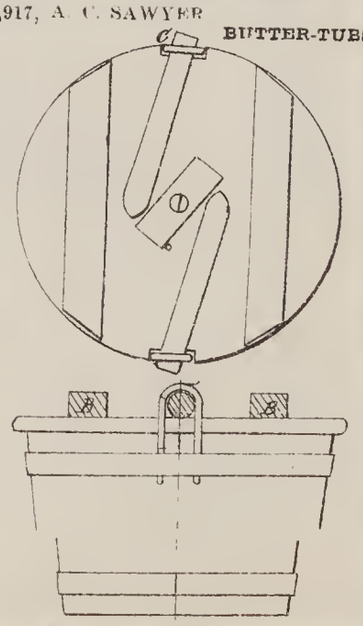

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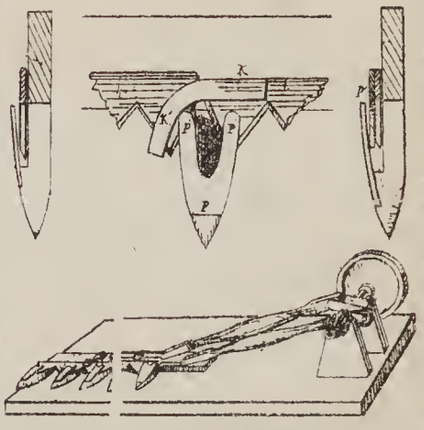

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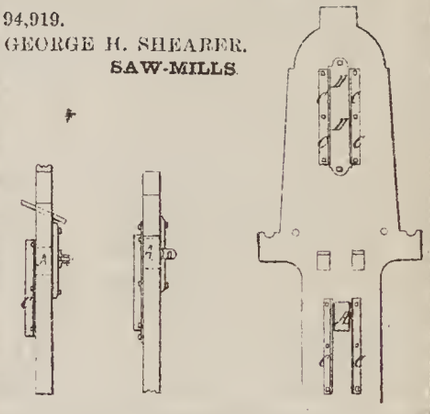
SAW-MILLS.



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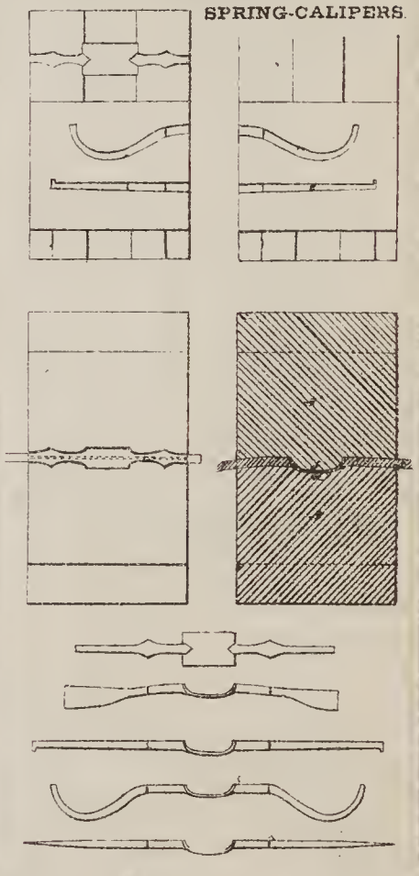

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JAMES G. STEPHENSON.
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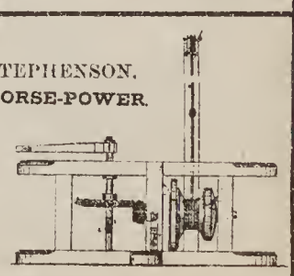

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ATTACHMENT FOR GAS-BURNERS.

94,923, JOHN P. SUMMERS.
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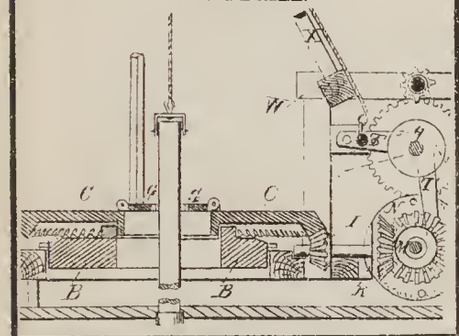

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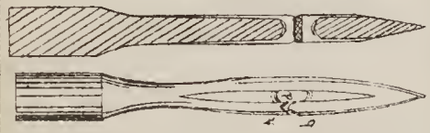

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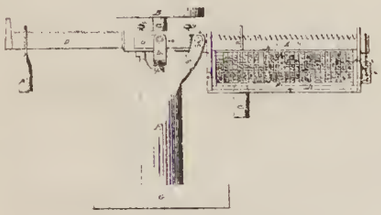

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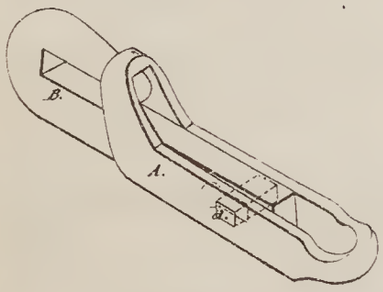

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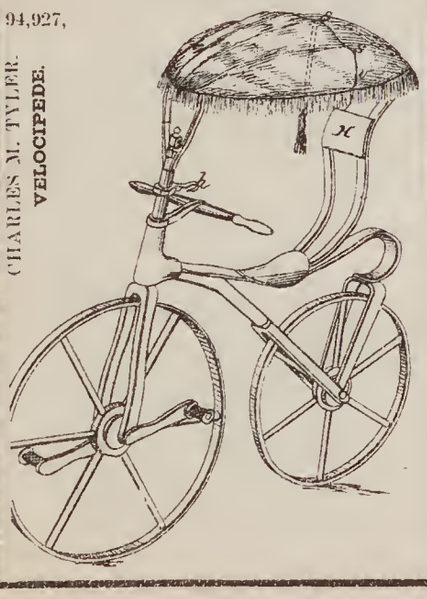

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94,929. JOHN N. WELLS.
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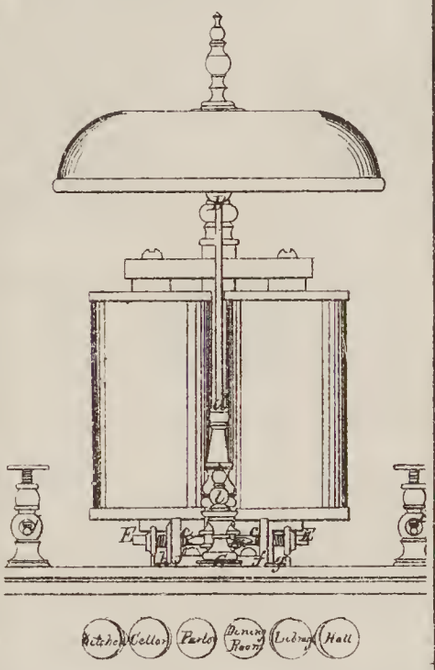

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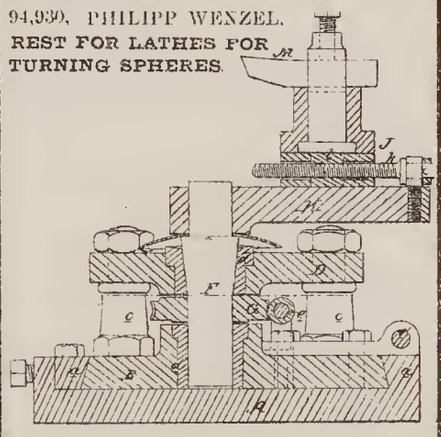

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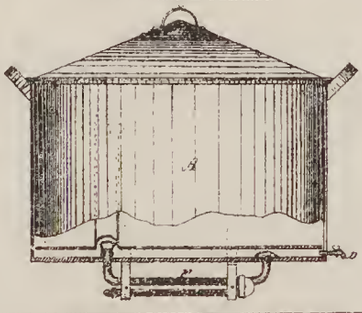

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94,933, WM. W. T. GREENWAY.
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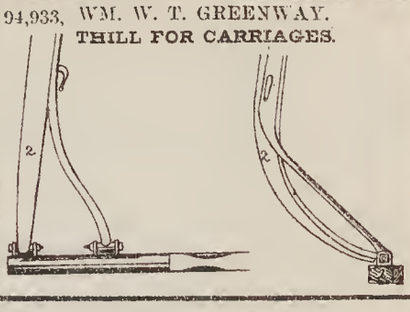

3,636, A. CHRISTIAN.
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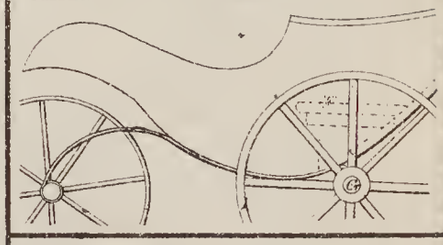

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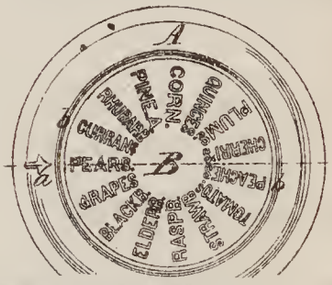
HOMER WRIGHT. **FRUIT-JARS.**



3,638, TIMOTHY J. POWERS.
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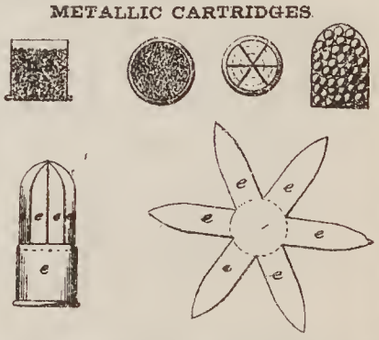
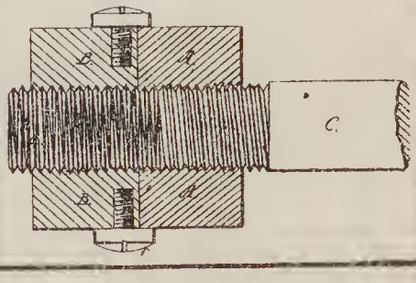


3,639, ALMON ROFF. **LOCK-NUT.**



3,640, JAMES OSWALD SWINNEY,
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3,641, MICHAEL THORNTON.
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ILLUSTRATIONS OF PATENTS

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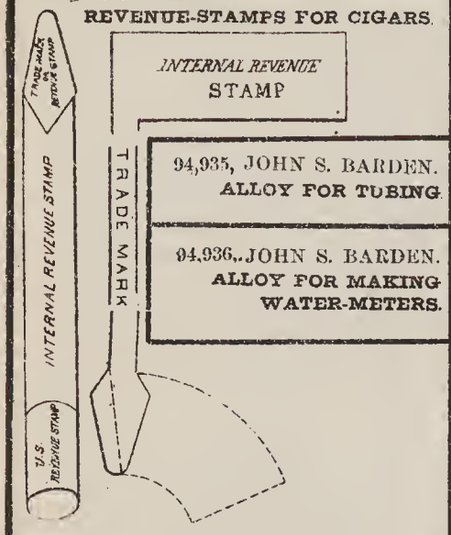
SEP. 21, 1869.

94,934, ANSON ATWOOD.
REVENUE-STAMPS FOR CIGARS.



94,935, JOHN S. BARDEN.
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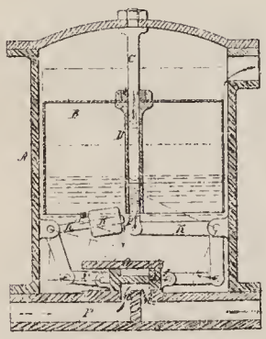
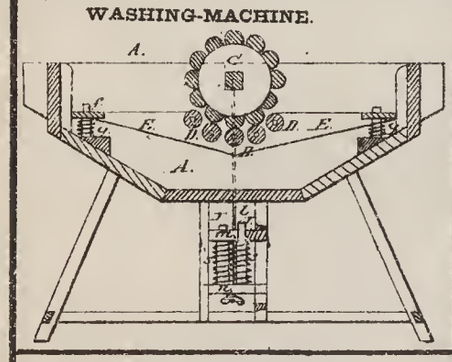
94,936, JOHN S. BARDEN.
ALLOY FOR MAKING WATER-METERS.

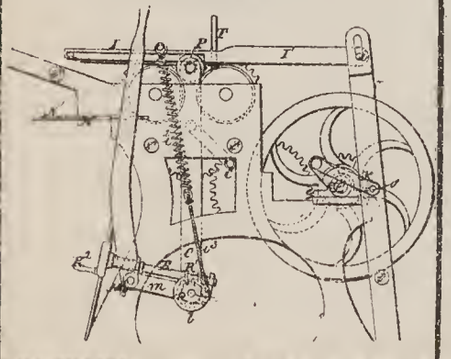
94,937, JOHN S. BARDEN.
BOILER-FEED-WATER REGULATORS.



94,938, GEORGE W. BENTON.
WASHING-MACHINE.



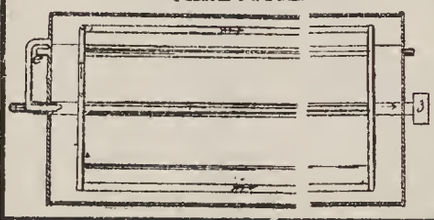
94,939, JOB W. BLACKHAM.
FELTING-MACHINES.



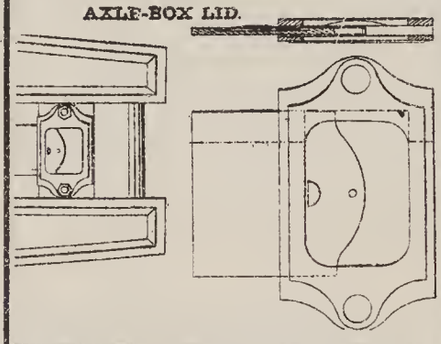
94,940, CHAS. BOECKH.
BRUSH.

94,941 SAMUEL BRILLINGER.
BRUSH.

94,942, M. S. BRINGIER.
APPARATUS FOR EVAPORATING CANE-JUICE.

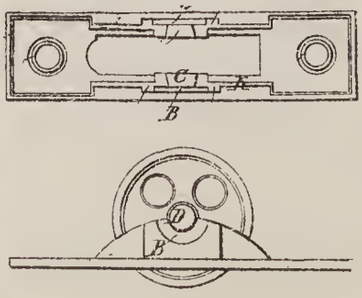


94,943. JOHN BRISTOW.
AXLE-BOX LID.

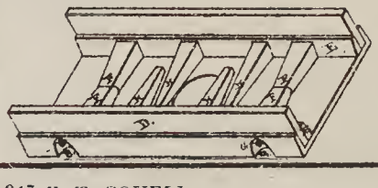


94,944, ERASTUS CASWELL.
HERMAN LACHMANN.
SIGNS FOR STREET-LAMPS.

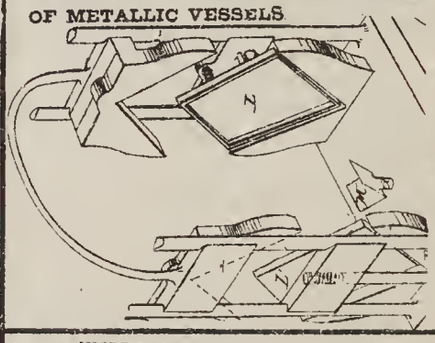
94,945, CHARLES B. CLARK.
SASH-PULLEYS.



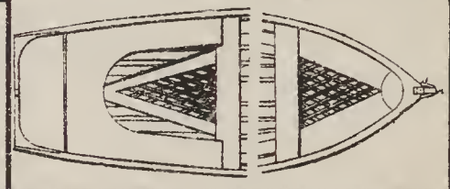
94,946. CHARLES E. CLUM.
SCRUBBER.



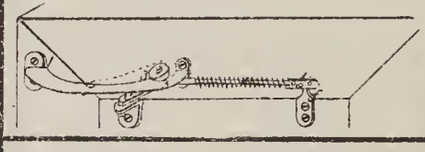
94,947, E. T. COVELL.
MACHINE FOR CLOSING THE SEAMS OF METALLIC VESSELS.



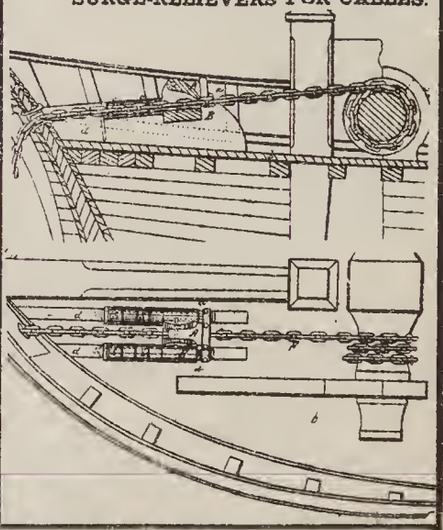
94,948. WILLIAM P. DAVIS.
SAM. ELWELL, JR.
PROTECTOR FOR STEMS OF BOATS.



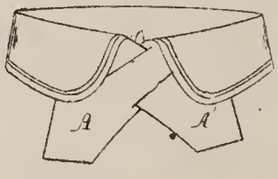
FREDERICK DODGE. 94,949,
DOOR-SPRING.



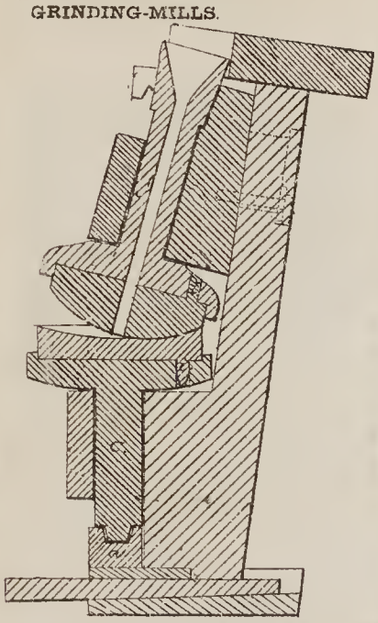
94,950. JOHN J. EMERY.
SURGE-RELIEVERS FOR CABLES.



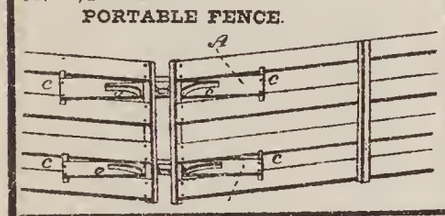
94,951, F. FIELD.
NECKTIES.



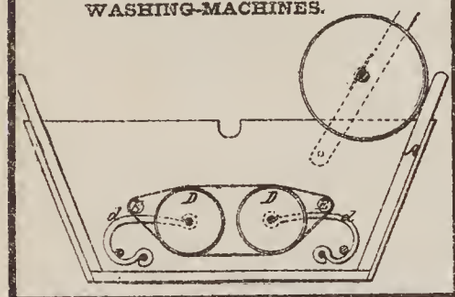
94,952, MORRISON FOSTER.
GRINDING-MILLS.



94,953, NEWTON J. GLOVER.
PORTABLE FENCE.

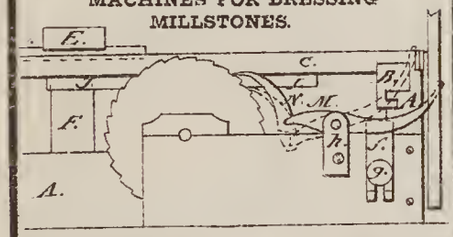


94,954, J. T. GREENWOOD.
WASHING-MACHINES.

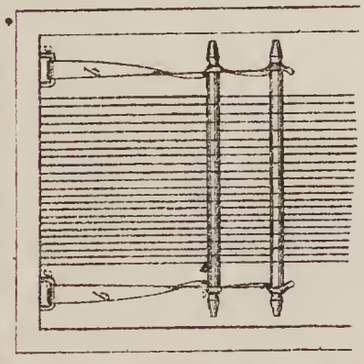


94,955, N. B. HADLEY.
R. J. COSTAIN.
EMERY-WHEELS AND OIL-STONES.

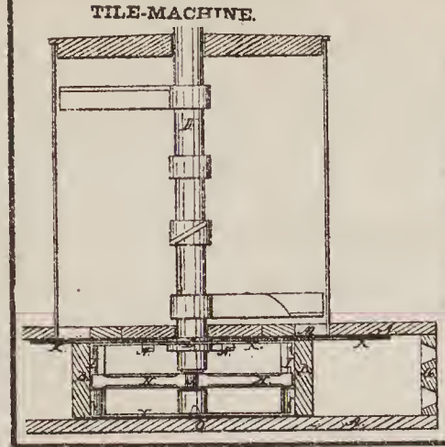
94,956, JOHN B. HARRIS.
MACHINES FOR DRESSING MILLSTONES.



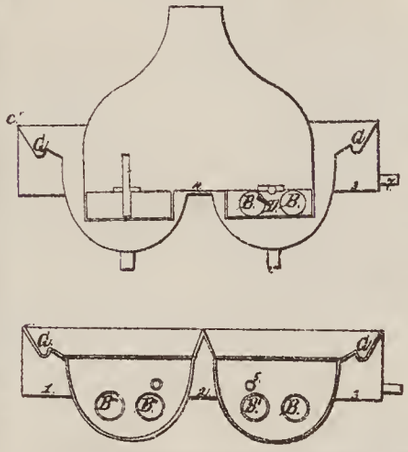
94,957, WM. A. HASTINGS.
MOUNTING LEASE-RODS FOR LOOMS, &c.



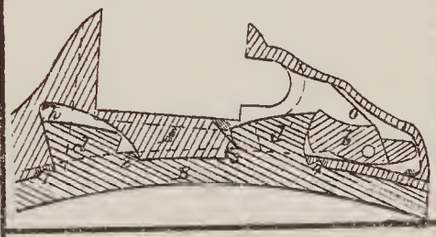
94,958, SIMEON HAWKINS.
TILE-MACHINE.



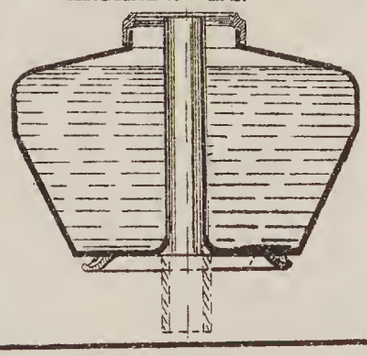
94,959, L. S. HEREFORD. **APPARATUS FOR EVAPORATING CANE-JUICE.**



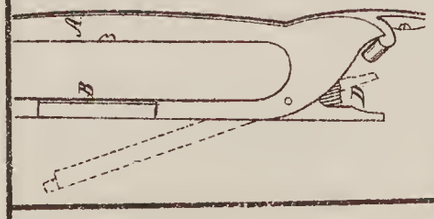
94,960, AMOS A. HOTCHKISS.
BRAKE-SHOE.



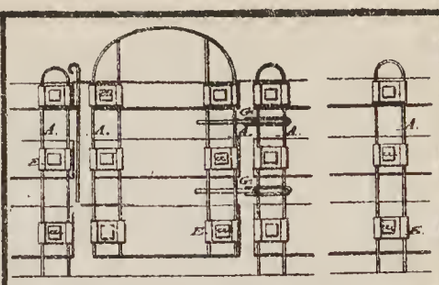
94,961, ANDREW B. HOWLAND.
ARGAND-LAMPS.



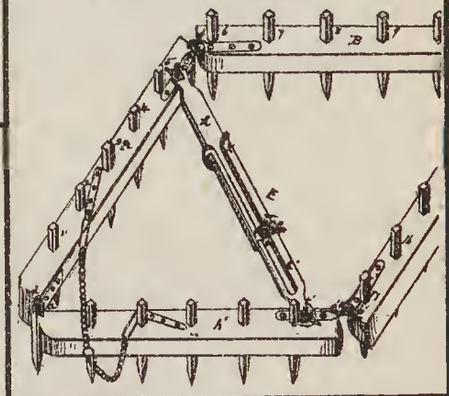
94,962, THOMAS F. KIFF.
HOLDBACK FOR CARRIAGES.



94,963, EDWIN KING.
FIELD-FENCE.

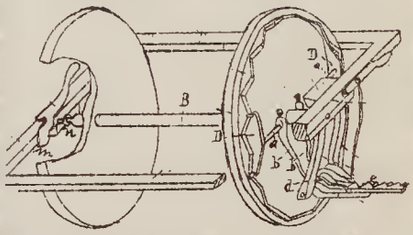


94,964, JOHN KINHART.
ADJUSTABLE HARROW.



94,965, J. RUSSELL LITTLE.
METALLIC BUTTON-HOLE OR CLASP.

94,966, CHAS. E. MASON.
HARVESTERS.



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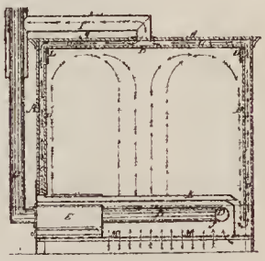
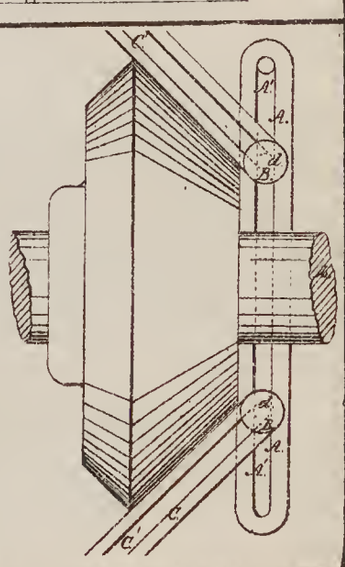
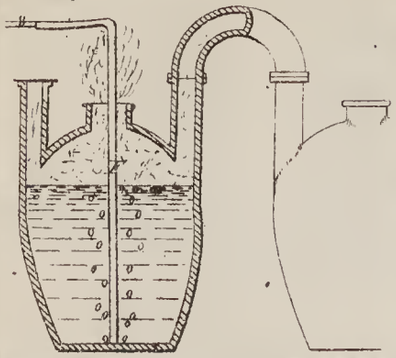
DRIER.



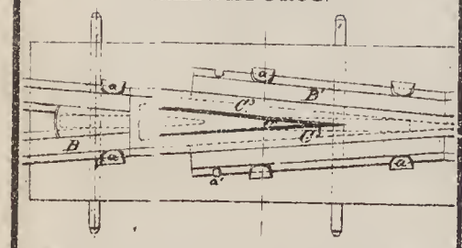
94,968, GEO. W. MOORE.
GAUGE FOR TURNING BEVELS.



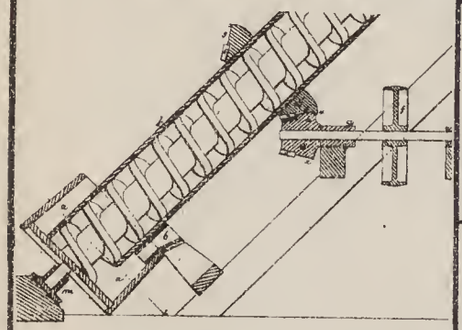
94,969. GEO. M. MOWBRAY.
METHOD OF PURIFYING NITRIC ACID.



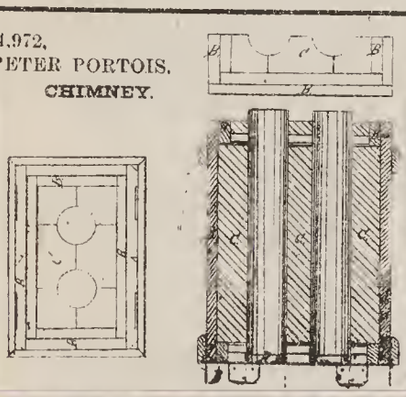
94,970. JAMES PATTERSON.
RAILWAY-FROG.



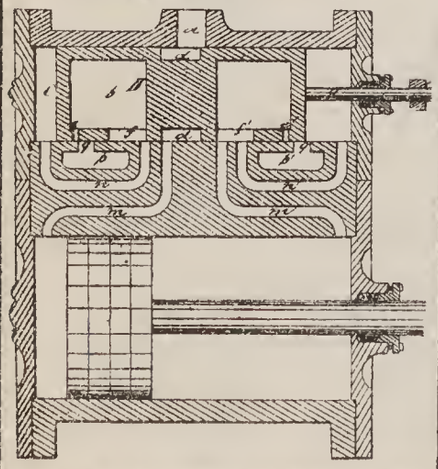
94,971. W. H. PLUMB. **ARCHIMEDEAN SCREW WATER-ELEVATORS.**



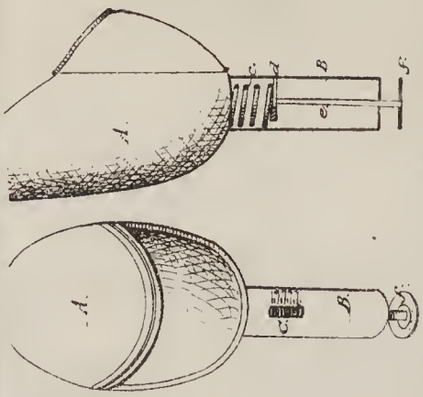
94,972.
PETER PORTOIS.
CHIMNEY.



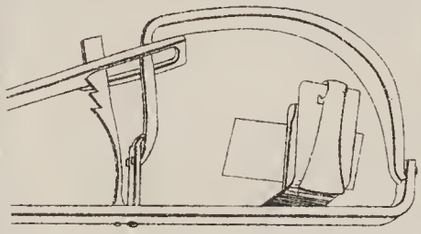
94,973, ELTING POST.
STEAM-ENGINE VALVES.



94,974, DAVID H. PRIEST.
JOHN R. HOWARD.
WEIGHING-SCOOPS.

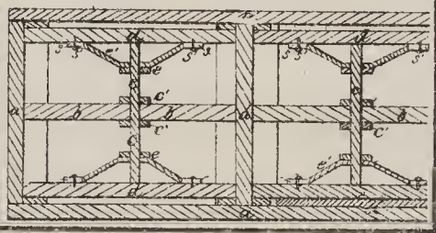


94,975, WM. N. REED.
ANIMAL-TRAP.



94,976. T. S. REEVE.
C. D. SMITH.
H. L. SWARTWOUT.
SEWING-MACHINE.

94,977 PETER C. RENIERS.
BASKET FOR GRINDING TILE.



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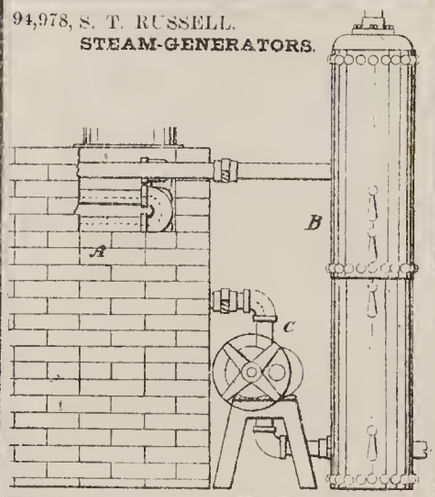
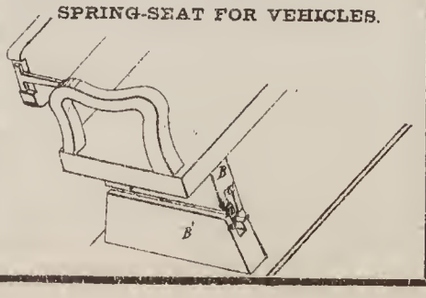
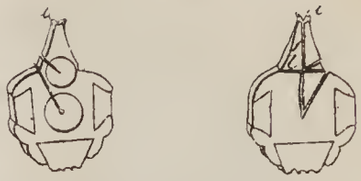
STEAM-GENERATORS.



94,979 SAMUEL S. SIMMONS.
SPRING-SEAT FOR VEHICLES.

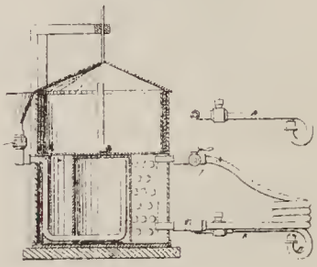


94,980. CORELLI W. SIMPSON
NEEDLE-THREADERS.

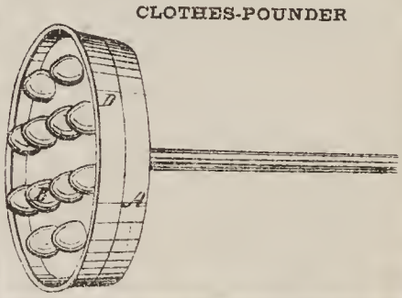


94,981. ALFRED E. SMITH.

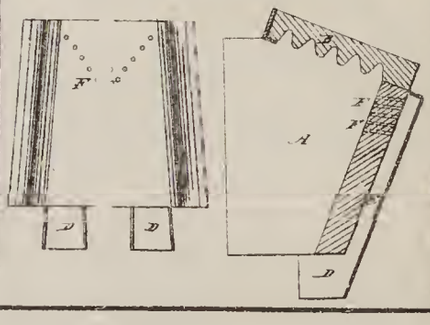
94,982, AND. R. SPANG.
DANIEL F. SCHEAF.
GAS-MACHINE.



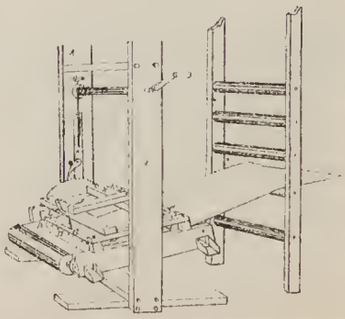
94,983, ORRIN J. STICKLES.
CLOTHES-POUNDER



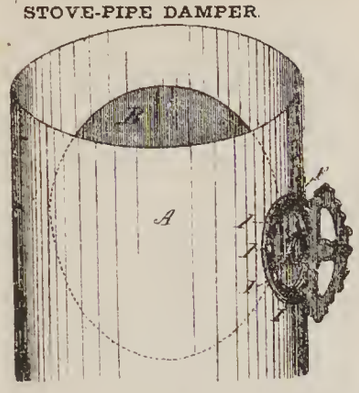
94,984, JAMES C. STRONG. **FIRE-PLACE.**
LUTHER C. McNEAL.



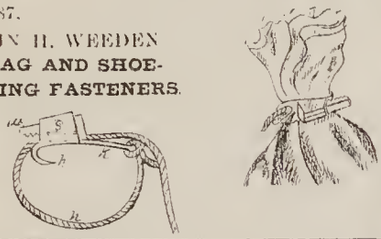
94,985. C. W. STROUT.
AMOS WILDER. **MACHINES FOR PAINTING FLOOR OIL-CLOTHS.**



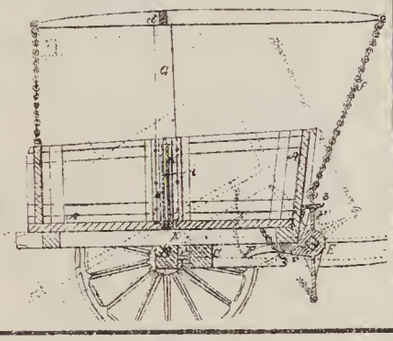
94,986, ISAAC VAN HAGEN.
STOVE-PIPE DAMPER.



94,987.
JOHN H. WEEDEN
BAG AND SHOE-STRING FASTENERS.

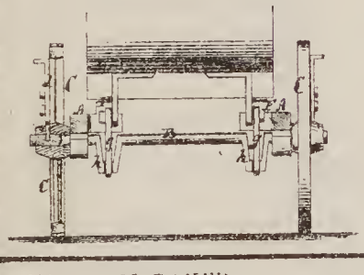


94,988, F. HANCOCK WILLIAMS.
DUMPING-CART.

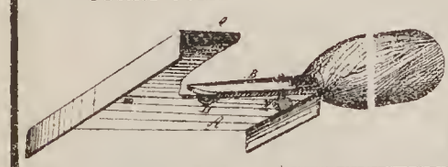


94,989, GEORGE ALEXANDER.
WAGON-TONGUE SUPPORT

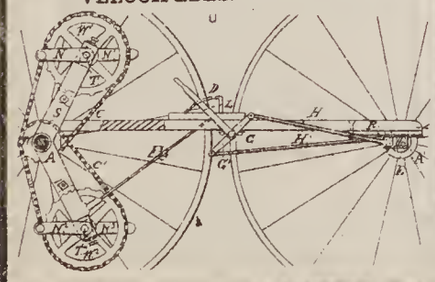
94,990, A. ARMANDO.
ROCKING CARRIAGE.



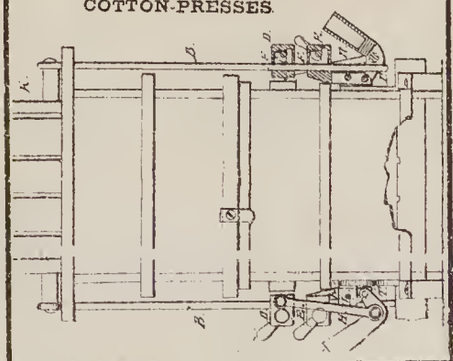
94,991 JNO. M. BAKER.
CURRY-COMB.



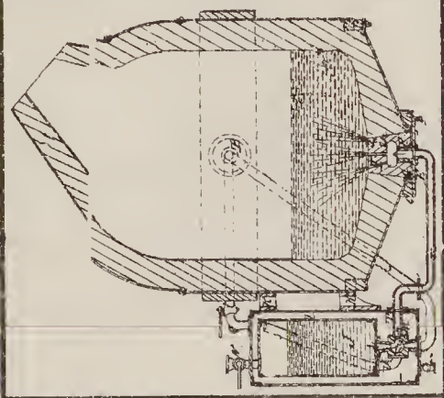
94,992, ROBERT J. BARE.
VELOCIPEDES.



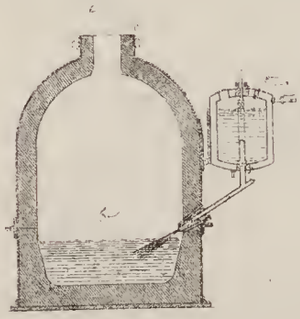
94,993, CHARLES J. BEASLEY.
COTTON-PRESSES.



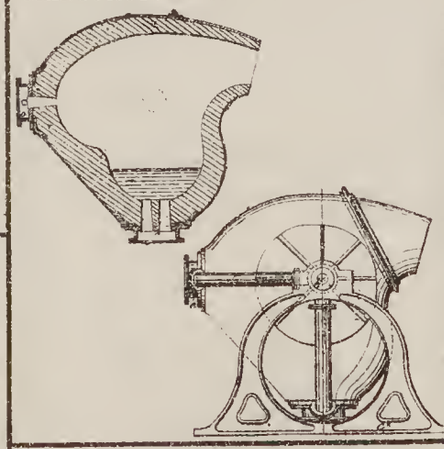
94,994. HENRY BESSEMER.
MANUFACTURE OF IRON AND STEEL.



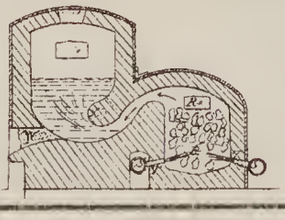
94,995, HENRY BESSEMER.
MANUFACTURE OF IRON AND STEEL.



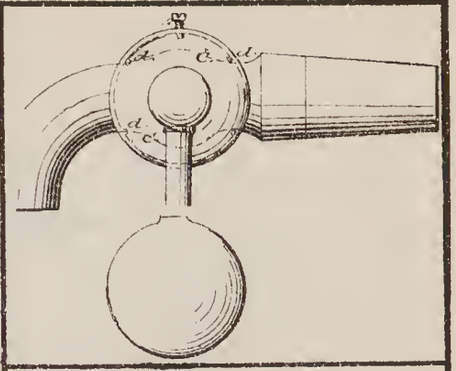
94,996, HENRY BESSEMER.
MANUFACTURE OF IRON AND STEEL.



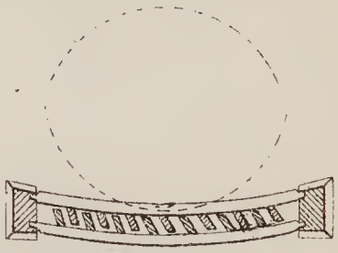
94,997, HENRY BESSEMER.
MANUFACTURE OF IRON AND STEEL.



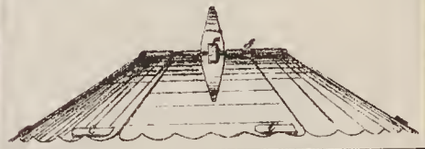
94,998, A. BRINCKMANN.
SELF-CLOSING FAUCETS.



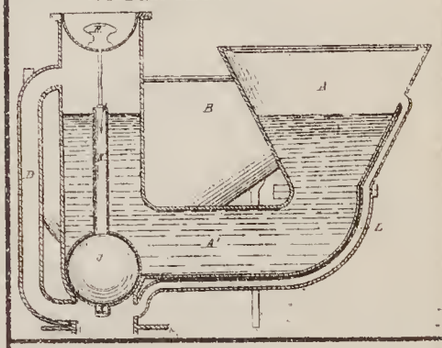
94,999, JAMES CATE.
WOOL-PICKING MACHINE.



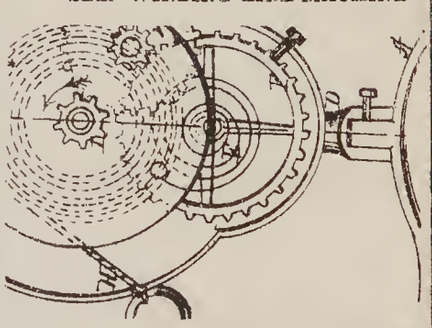
95,000, R. W. CHURCHILL.
LAMP-SHADES.



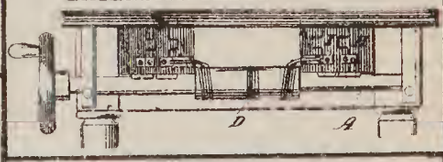
95,001, GEORGE CONRON.
WATER-CLOSETS.



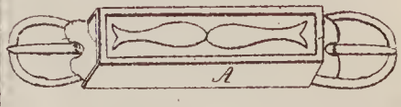
95,002, WM. A. COVENTRY.
SELF-WINDING LINE-MACHINE



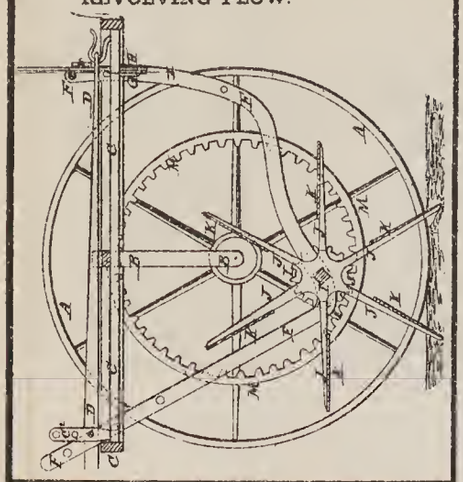
95,003, JOSEPH P. CURRY.
EXTENSION-TABLE.



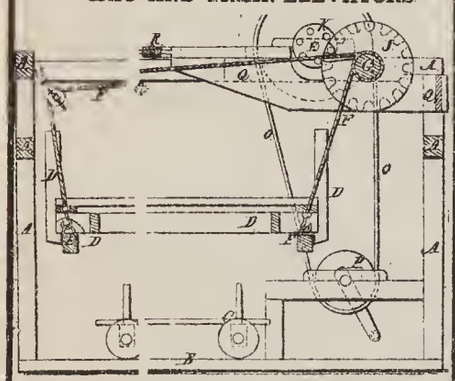
95,004, CHARLES H. DAVIS.
BOX-LOOP FOR CARRIAGE-TOPS



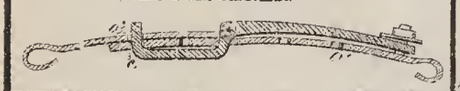
95,005. WM. J. DAWSON.
REVOLVING PLOW.



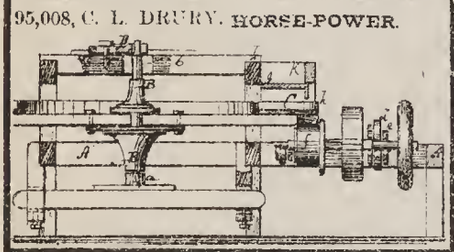
95,006, JOHN DENNIS.
HAY AND GRAIN-ELEVATORS.



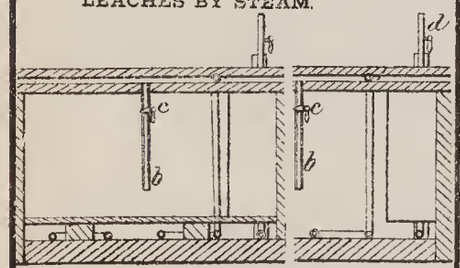
95,007, M. L. DRAKE.
HAMES-FASTENER.



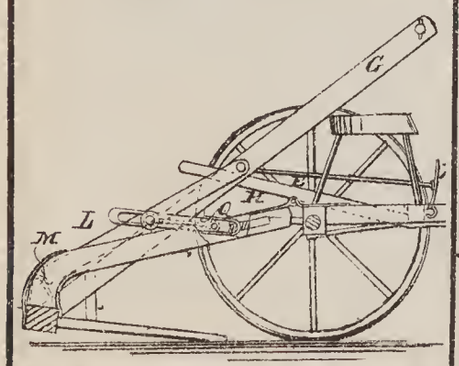
95,008, C. L. DRURY. **HORSE-POWER.**



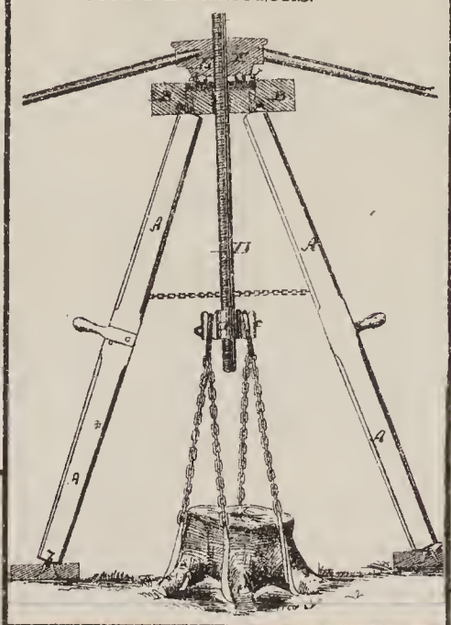
95,009, LEWIS C. ENGLAND.
METHOD OF HEATING TAN-BARK LEACHES BY STEAM.



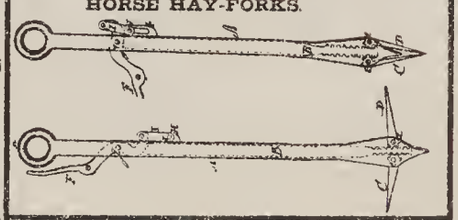
95,010, W. P. EWING.
HORSE HAY-RAKE.



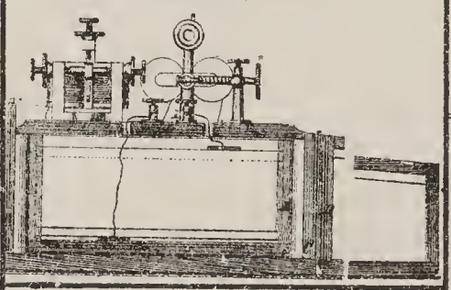
95,011 T. W. FAY.
STUMP-EXTRACTORS.



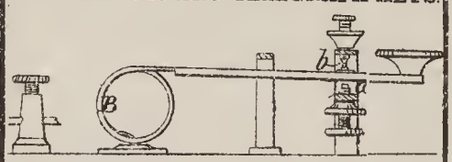
95,012, E. J. FENN.
HORSE HAY-FORKS.



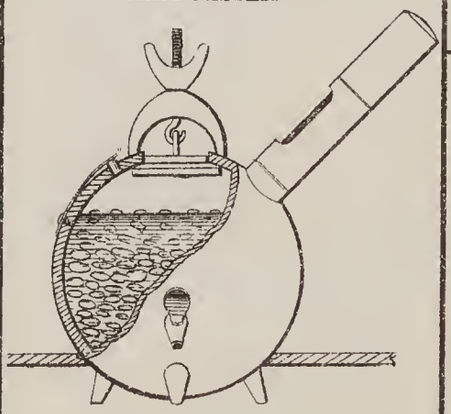
95,013, DAVID FLANERY.
TELEGRAPH-APPARATUS.



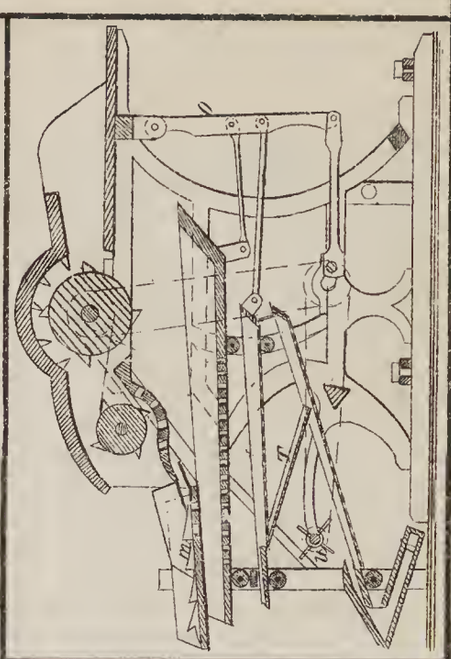
95,014 JOS. J. B. FREY.
SELF-CLOSING TELEGRAPH-KEYS.



95,015, JAMES GALLOWAY.
COFFEE-ROASTER.

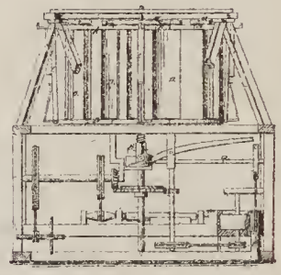


95,016, F. A. GEISLER.
THRESHING-MACHINES.

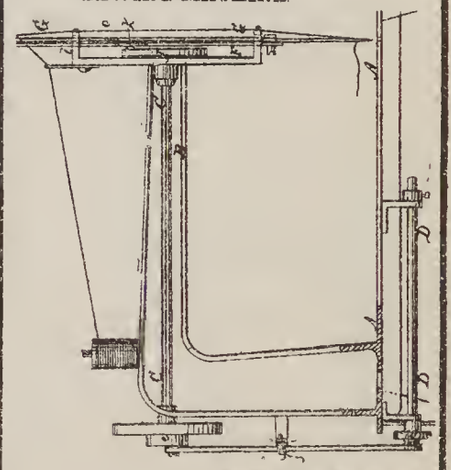


95,017, JOHN D. GREY.
MANUFACTURE OF GALVANIZED IRON.

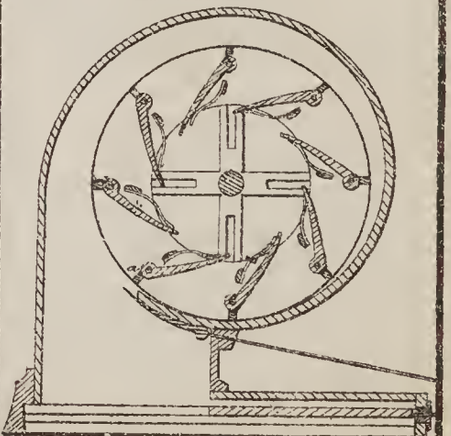
95,018, CHARLES C. HARRIS.
WIND-MILLS.



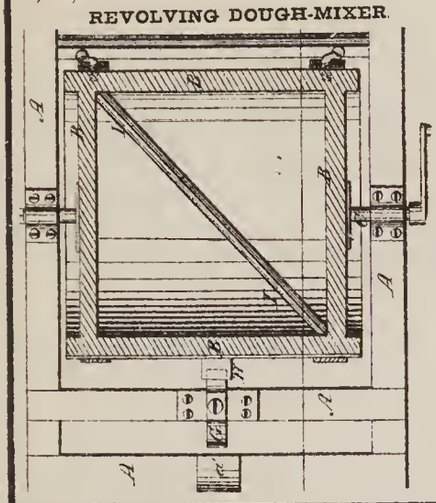
95,019, M. C. HAWKINS.
SEWING-MACHINE.



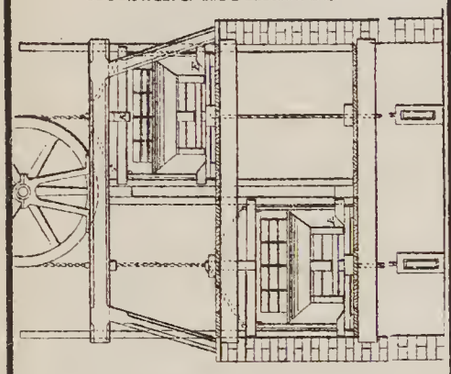
95,020, WM. E. HILL.
WATER-WHEELS.



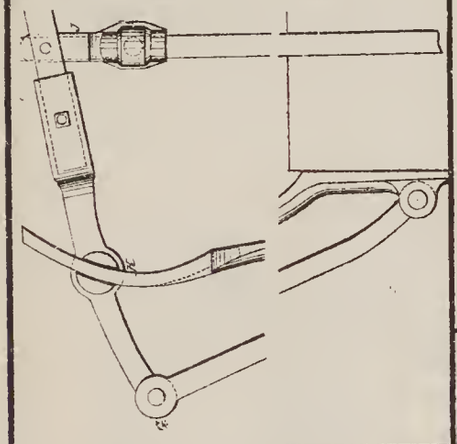
95,021, THOS. HOLMES.
REVOLVING DOUGH-MIXER.



95,022, G. H. KAMNACHER.
HOISTING-APPARATUS.

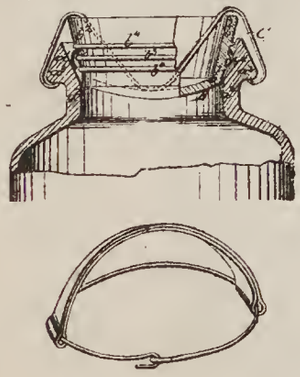


95,023, WM. KEGG. **CHURN-DASHERS.**

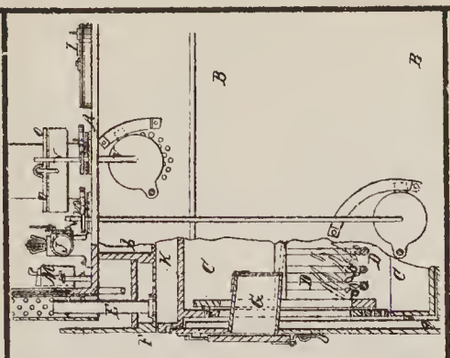


95,024, JEREMIAH J. KING. **DOOR-KNOB.**

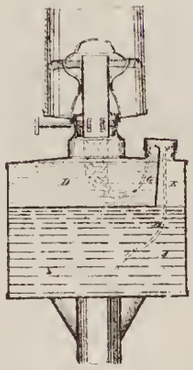
95,025, J. M. W. KITCHEN. **FRUIT-JARS.**



95,026, JOSIAH E. KLINE.
RAILROAD-CAR HEATER.

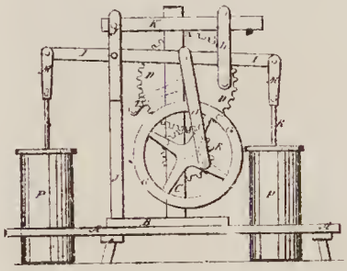


95,027, HENRY LONG. **LAMPS.**

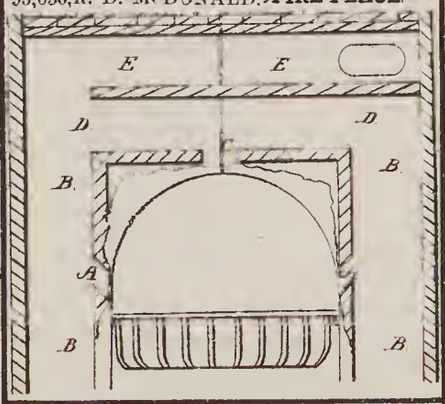


95,028, JOHN LONGMAID.
PROCESS FOR PRESERVING EGGS.

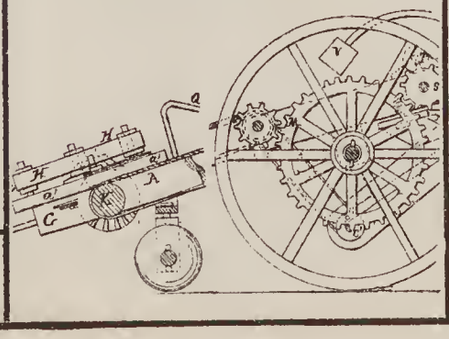
95,029, SAMUEL D. LUCAS. **CHURNS.**



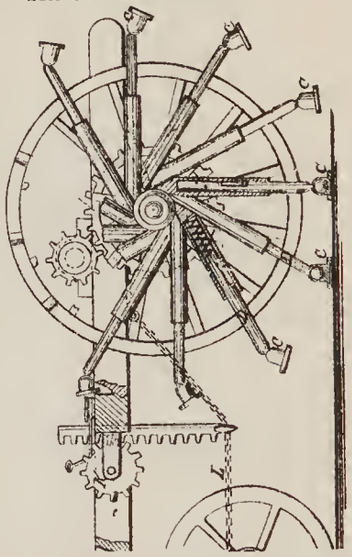
95,030, R. D. McDONALD. **FIRE-PLACE.**



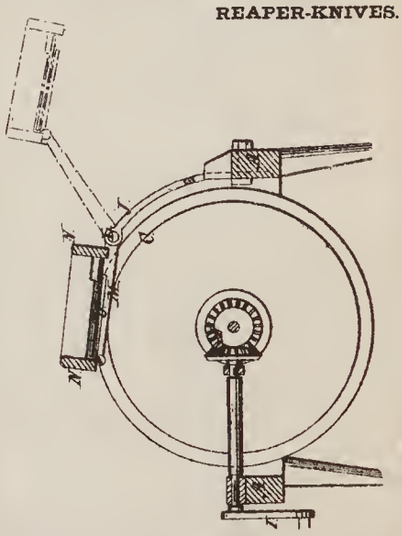
95,031 JOHN McLEISH.
CORN-HARVESTERS.



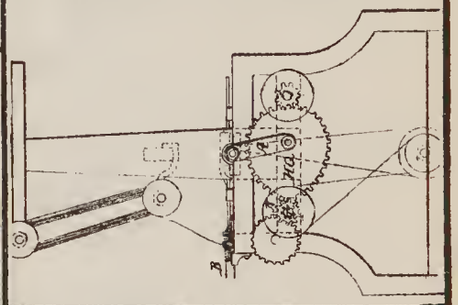
95,032, C. C. MERRIMAN.
TRACTION-ENGINES.



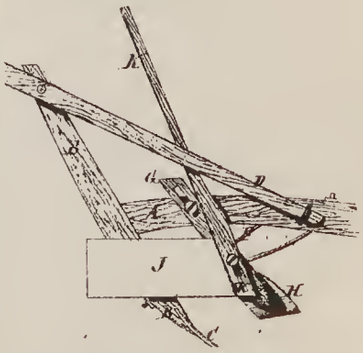
95,033, HENRY MILLARD.
GRINDING MOWER AND REAPER-KNIVES.



95,034, FRANKLIN H. MORRILL.
MACHINE FOR WINDING BOBBINS.

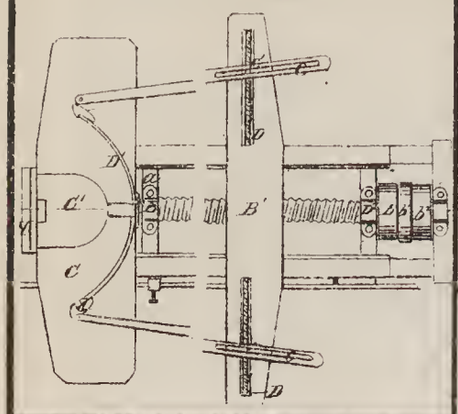


95,035, ISAAC J. MORROW.
CULTIVATORS.

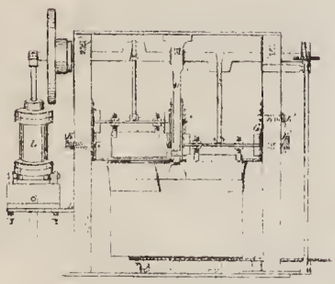


95,036, J. M. MUTERSE.
H. GUIBERT DE VALORY.
COMPOSITION FOR USE IN FIRE-EXTINGUISHERS.

95,037. HENRY H. NICHOLS.
MACHINE FOR BENDING WOOD.



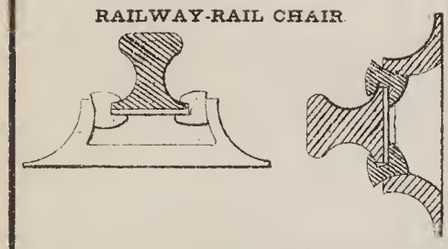
95,038, AUGUST NITTINGER, JR.
MEAT-CUTTING MACHINE.



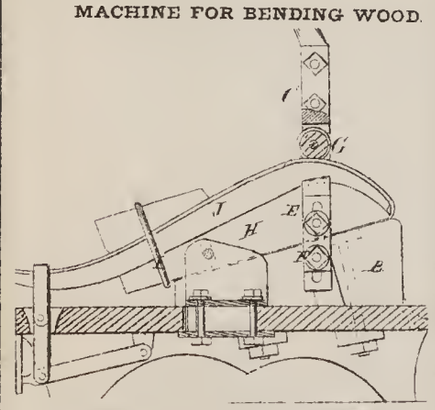
95,039, ALFRED PARAF.
EXTRACT OF MADDER FOR DYEING AND PRINTING

95,040, ALFRED PARAF.
PROCESS FOR PRINTING COLORS ON TEXTILE MATERIALS.

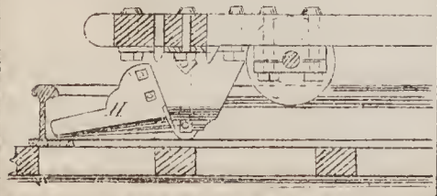
95,041, D. C. PIERCE.
RAILWAY-RAIL CHAIR.



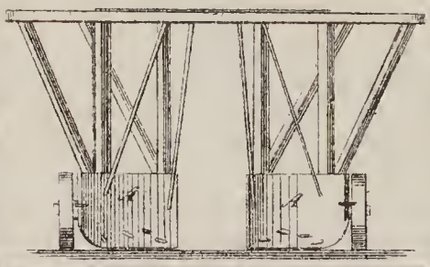
95,042, J. H. PRESTON.
MACHINE FOR BENDING WOOD.



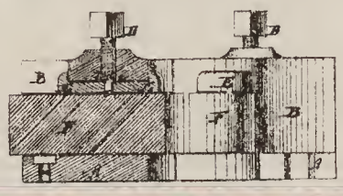
95,043, PERRY PRETTYMAN.
RAILWAY-CAR TRUCK.



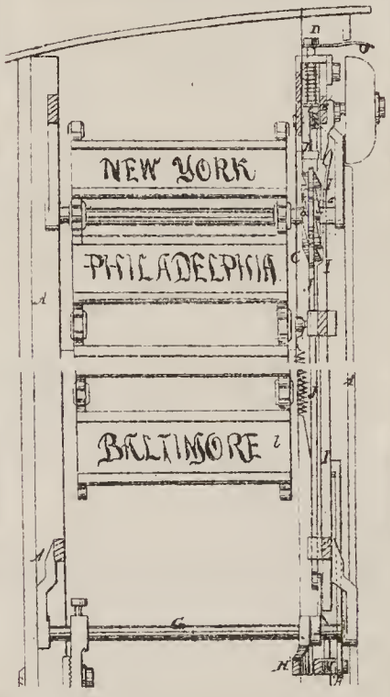
95,044, J. J. RAY.
JAS. R. YOUNG.
CULTIVATING-HOE



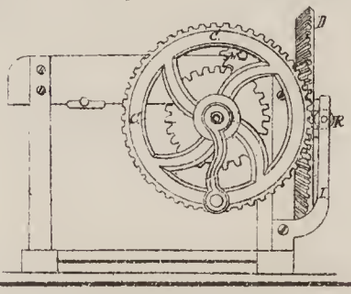
95,045, CHAS. A. H. RICE.
A. J. VAN DEREN.
GUIDES FOR STAMP-MILLS.



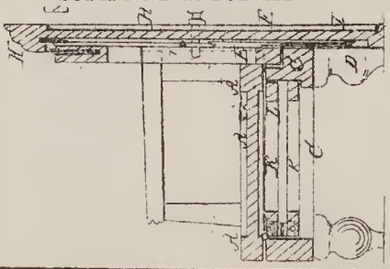
95,046, A. C. RODGERS.
RAILROAD-STATION INDICATOR.



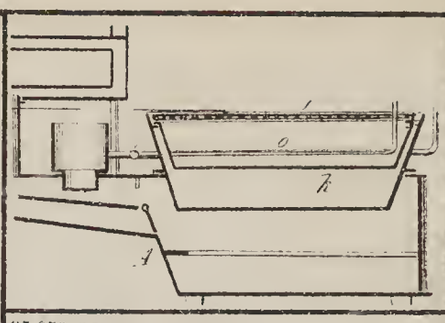
95,047, J. H. RYLAND. STRAW-CUTTER.



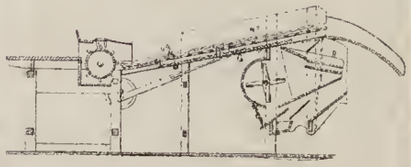
95,048, WILLIAM H. SCHWALBE.
SOFA AND BEDSTEAD.



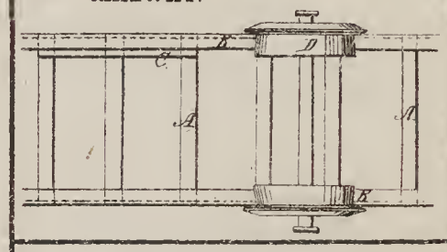
95,049, LEWIS SCOTT.
PAN AND FURNACE FOR EVAPORATING.



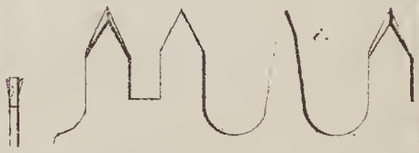
95,050. JOSHUA SEIP.
HENRY J. SCHMEYER.



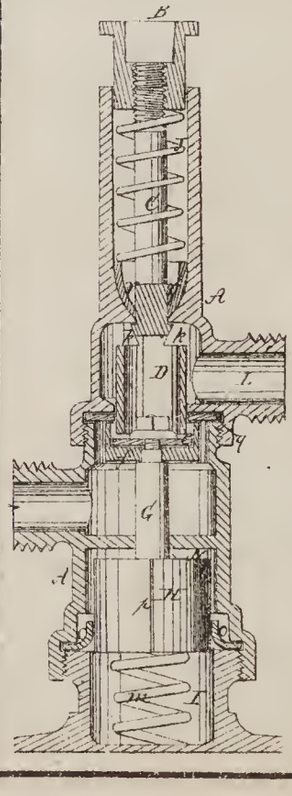
95,051 GEORGE V. SHEFFIELD.
JAMES F. COBURN.
RAILWAY.



95,052, JOSEPH H. SMITH.
ELIJAH G. PECKHAM.
SAWS.



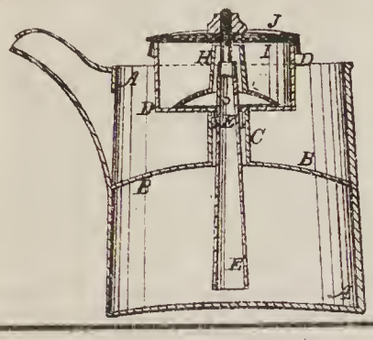
95,053, LUTHER L. SMITH
NICKEL-FACED TYPE.



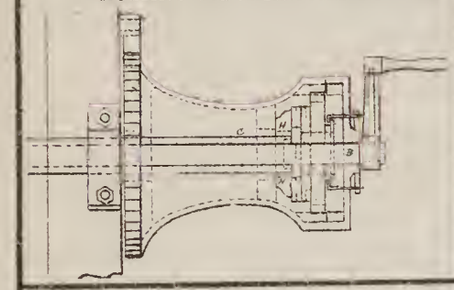
95,054. W. SMITH.
SLOW-CLOSING VALVES FOR WATER-CLOSETS.

95,055, LOUIS TRIPLETT.
SIDE-SADDLE TREE.

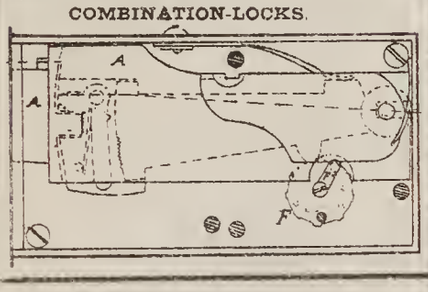
95,056, H. VON HOLTEN. COFFEE-POTS.



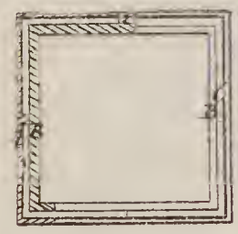
95,057, ADDISON G. WATERHOUSE.
ROTARY MECHANICAL POWER.



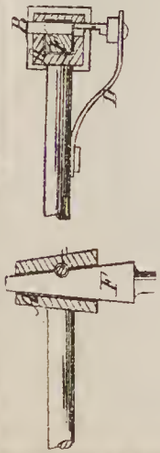
95,058, JOSEPH P. WHITE.
COMBINATION-LOCKS.



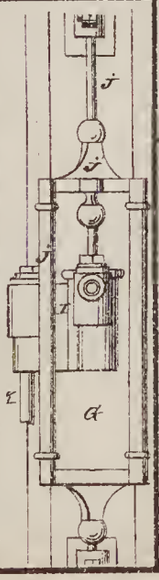
95,059, JOSEPH P. WHITE. SAFES.



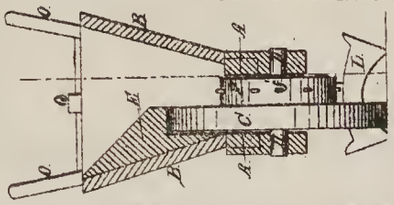
95,060
JACOB WINKELHOUSE
BIT-HOLDER.



95,061, HIRAM WOLF. MINING-PUMPS.



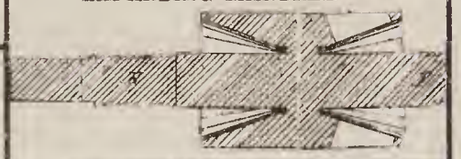
95,062, A. H. WOOTTON.
COMBINED CORN AND COTTON-PLANTER.



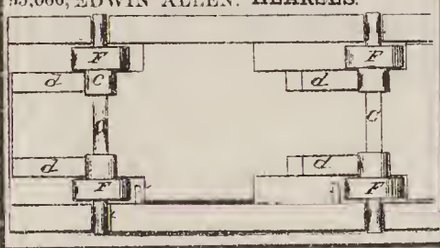
95,063, W. A. WRIGHT.
COMPOUND FOR RESTORING DAMAGED TOBACCO.

95,064 JOHN ALEXANDER
COATING IRON FOR THE FRONTS OF BUILDINGS, AND FOR OTHER PURPOSES.

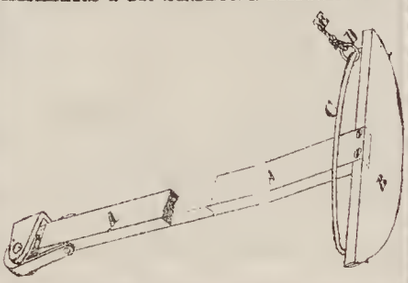
95,065. DAVID L. ALLEN.
EXPANDING MANDREL.



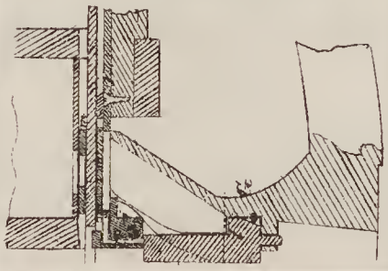
95,066, EDWIN ALLEN. HEARSES.



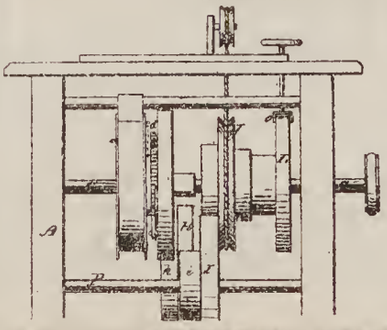
95,067, GEORGE ARMSTRONG.
MARKERS FOR SEEDING-MACHINES.



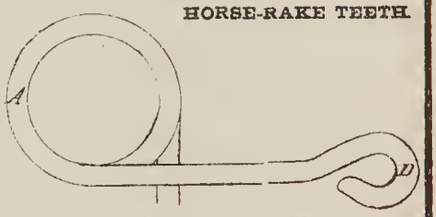
95,068, JAMES ARMSTRONG.
CORN-PLANTER.



95,069, JAMES B. AYER.
MOTIVE-POWER FOR SEWING AND OTHER MACHINES.

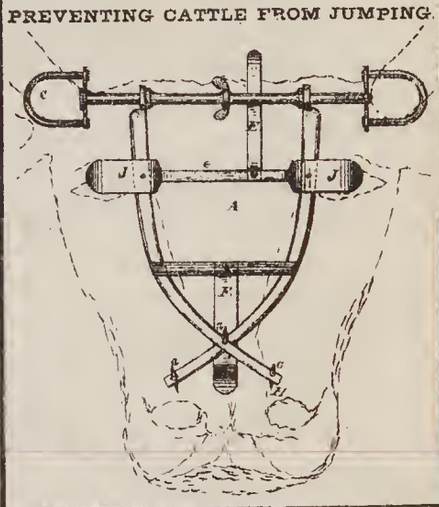


95,070, I. L. BARTLETT.
J. B. L. BARTLETT.
HORSE-RAKE TEETH.

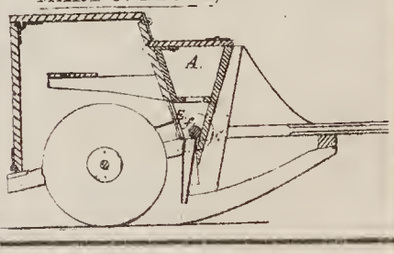


95,071, GIACINTO BARTOLOMEI.
COMPOSITION FOR ROOFING AND PAVING.

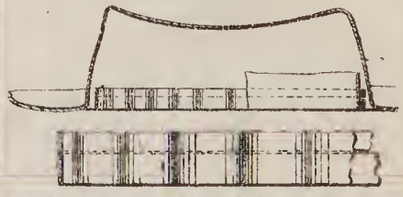
95,072, CHARLES BETTINGER.
PREVENTING CATTLE FROM JUMPING.



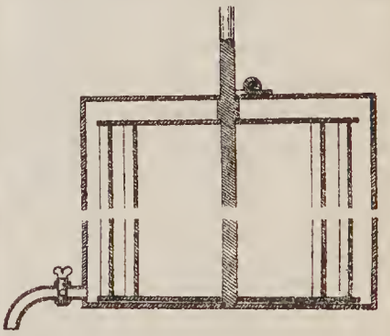
95,073, HIRAM BLUNT,
MARY J. BLUNT, WHEAT-DRILLS.



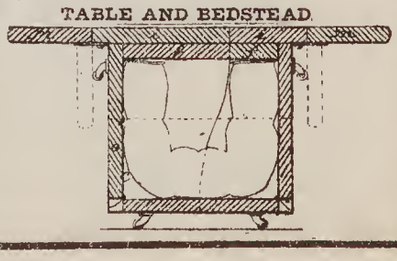
95,074, T. W. BRACHER.
HAT-VENTILATORS.



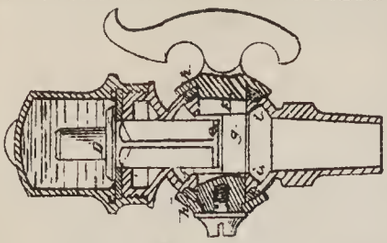
95,075, S. R. BRADLEY.
MANUFACTURE OF WHITE LEAD.



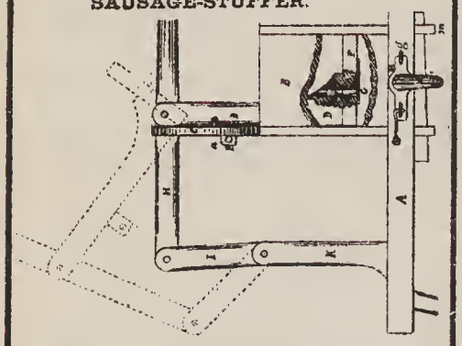
95,076, JAMES L. BRANDER.
TABLE AND BEDSTEAD.



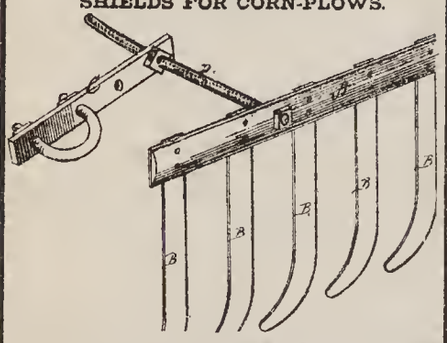
95,077, JOHN BROUGHTON. **FAUCETS.**



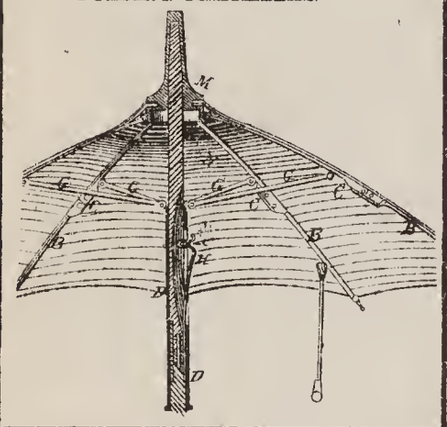
95,078, A. L. BROUSE.
URIAS WEIDMAN.
SAUSAGE-STUFFER.



95,079, DAVID F. BROWN.
ELIJAH C. BROWN.
SHIELDS FOR CORN-PLOWS.

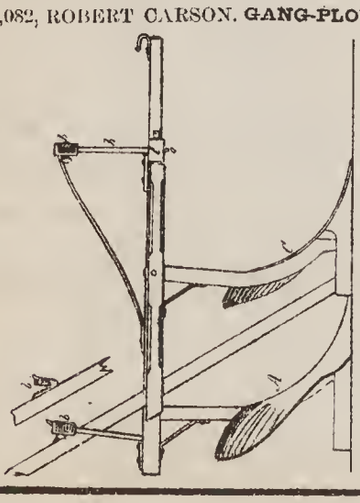


95,080, S. B. BUSHFIELD, JR.
FOLDING-UMBRELLAS.

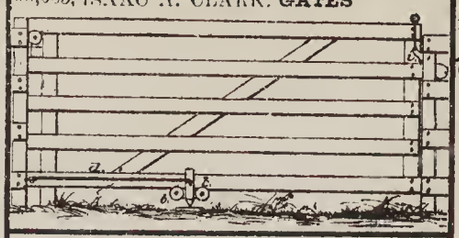


95,081 CANCELED.

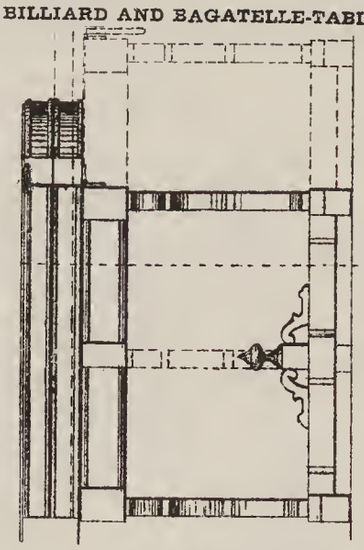
95,082, ROBERT CARSON. **GANG-PLOWS.**



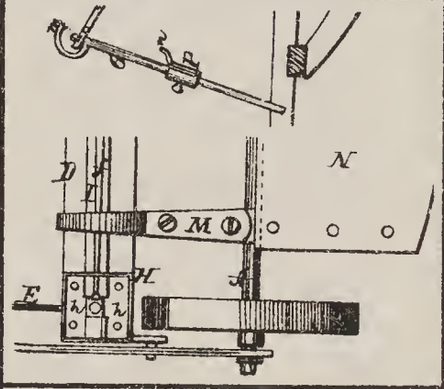
95,083, ISAAC A. CLARK. **GATES**



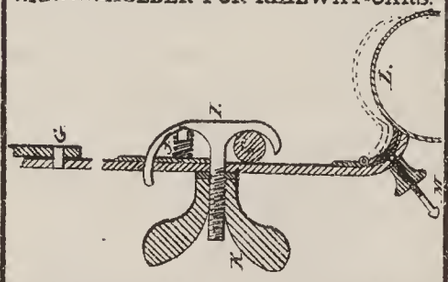
95,084, W. A. CLARK.
A BILLIARD AND BAGATELLE-TABLE.



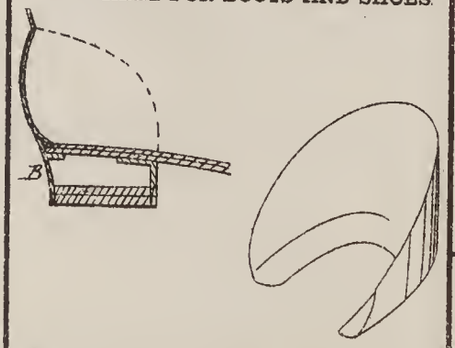
95,085, JAMES S. COEN. **CORN-PLANTER.**



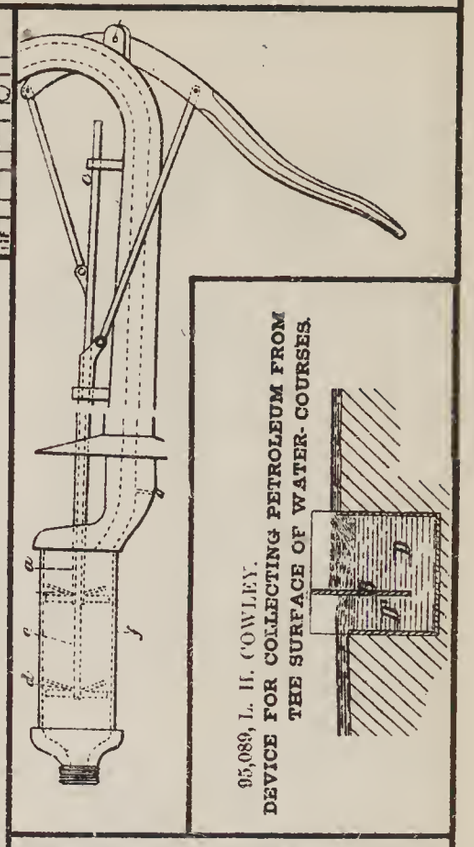
95,086, W. W. COLLEY.
W. H. DEITRICK.
SIGNAL-HOLDER FOR RAILWAY-CARS.



95,087, HENRY CORDTZ.
HEEL FOR BOOTS AND SHOES.

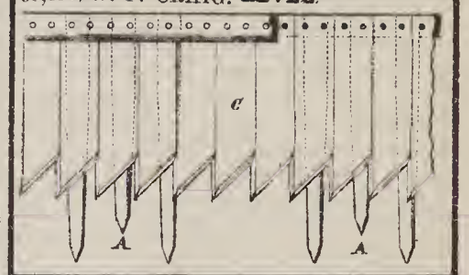


95,088, CHARLES A. COWELL.
PUMPS.

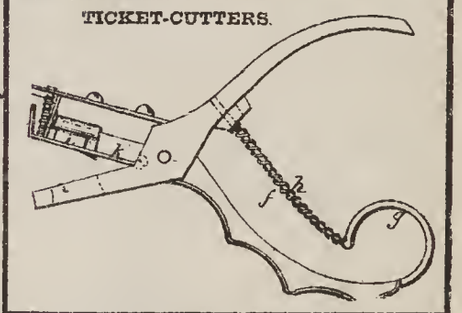


95,089, L. H. COWLEY.
DEVICE FOR COLLECTING PETROLEUM FROM THE SURFACE OF WATER-COURSES.

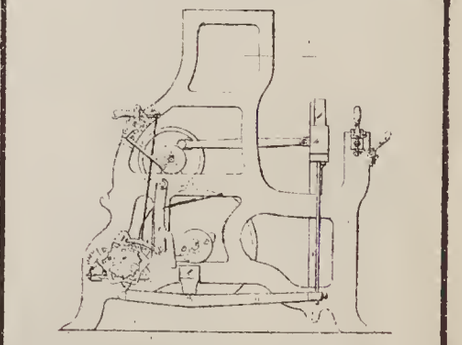
95,090, W. P. CRAIG. **LEVEE.**



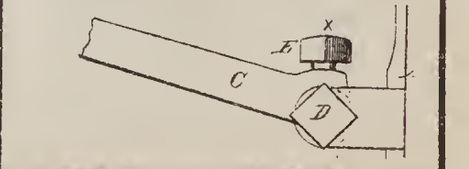
95,091, LUTHER O. CROCKER.
TICKET-CUTTERS.



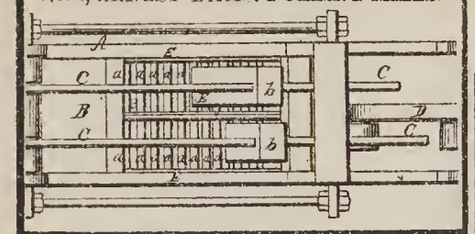
95,092, GEO. CROMPTON. **LOOM.**



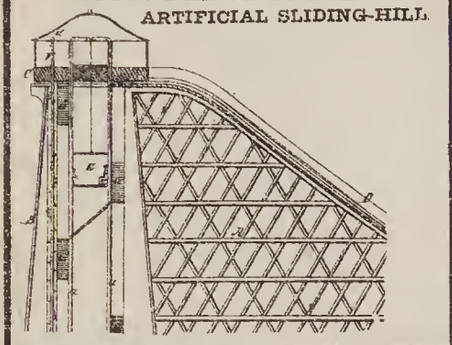
95,093, PHINEAS D. CROSBY.
THILL-COUPLING.



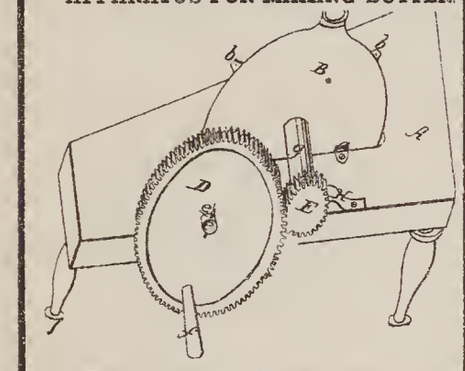
95,094, ERNEST DAMS. **FULLING-MILLS.**



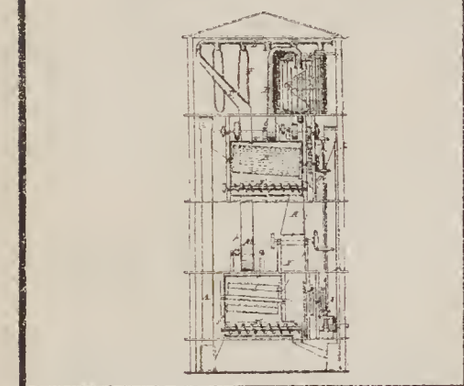
95,095, CONSTANTINE DE BODISCO
PEDRO DIEZ DE RIVERA.
ARTIFICIAL SLIDING-HILL.



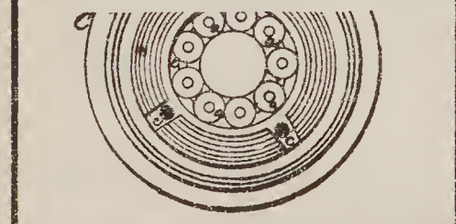
95,096, AVERY DENISON.
APPARATUS FOR MAKING BUTTER.



95,097, CHAS. W. DWELLE.
MANUFACTURE OF WHITE LEAD

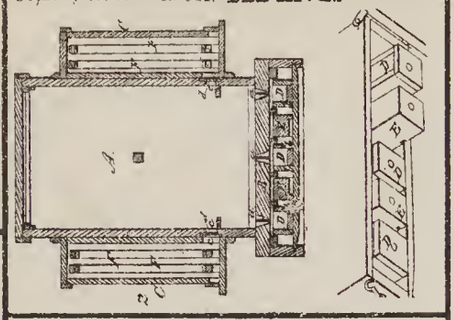


95,098, W. P. ELAM. **CARRIAGE-WHEELS.**

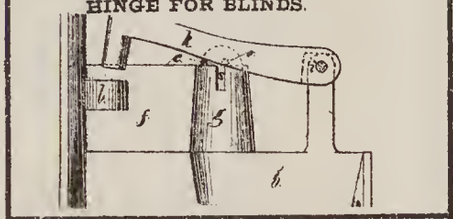


95,099, DAVID EYNON.
PILE FOR RAILROAD-CHAIRS.

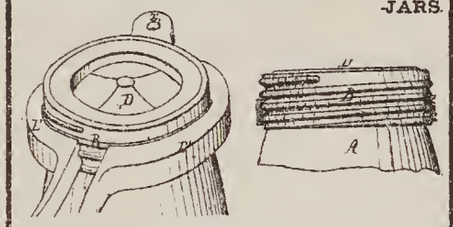
95,100, H. H. FLICK. **BEE-HIVES**



95,101, WILLIAM T. FRELIGH.
HINGE FOR BLINDS.

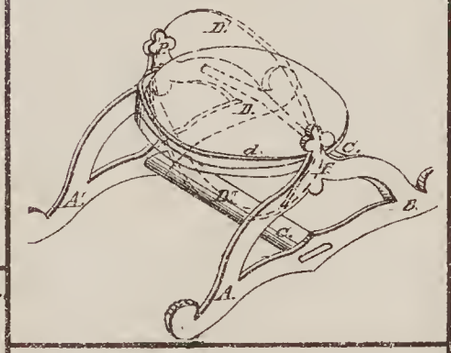


95,102, ALONZO FRENCH.
INSTRUMENTS FOR TIGHTENING AND LOOSENING SCREW-CAPS OF FRUIT -JARS.

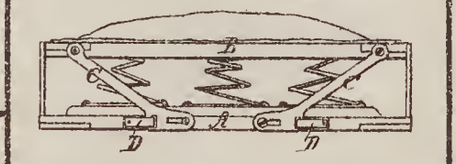


95,103, RUSSEL FRISBIE.
HINGES FOR BOXES.

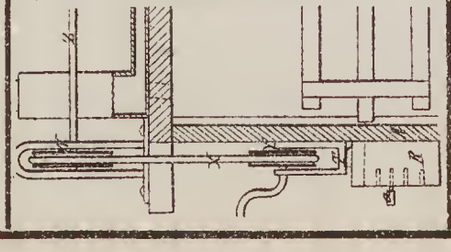
95,104, CHAS. E. GOODHUE.
URN-STAND.

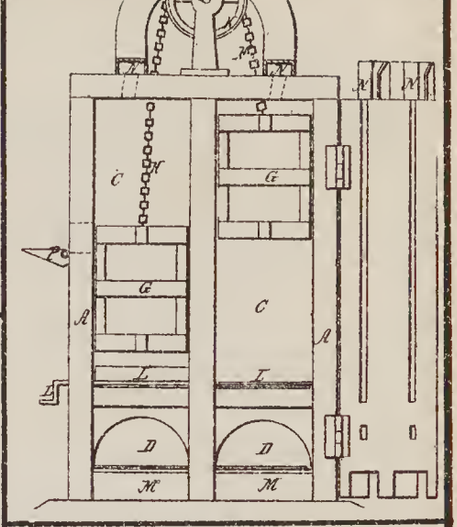


95,105, GEO. C. GRUT.
SPRING-BED BOTTOM.

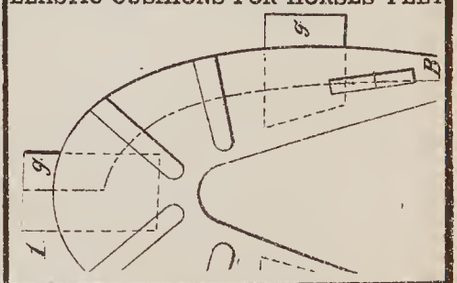


95,106, I. A. HAMMER. **BAKE-OVENS.**

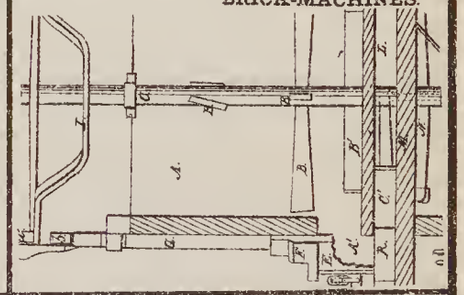




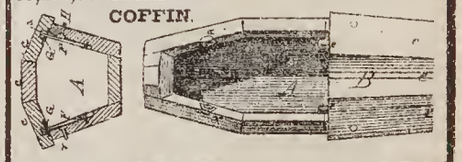
95,107, JOHN HASELTINE.
CHAS. L. WHEELER.
ELASTIC CUSHIONS FOR HORSES' FEET



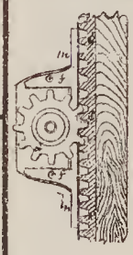
95,108, C. V. HEMENWAY.
BRICK-MACHINES.



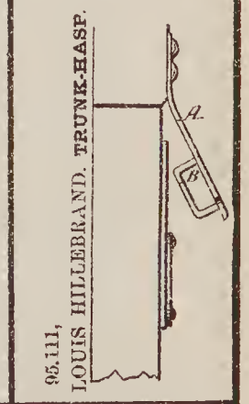
95,109, ALEXANDER W. HENDRICK.
COFFIN.



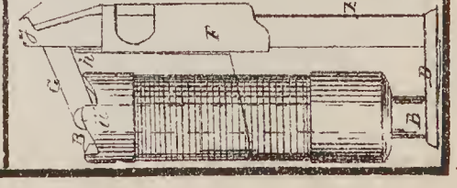
95,110,
COLEMAN HICKS
SASH-HOLDER.



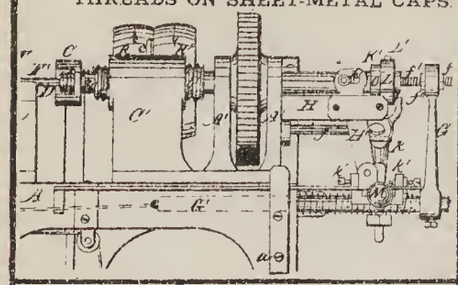
95,111,
LOUIS HILLEBRAND. **TRUNK-HASP.**



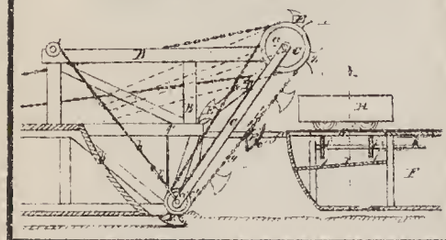
95,112, WM. J. HORSTMANN.
LET-OFF AND TENSION-DEVICES FOR SPOOLS OF BRAIDING-MACHINES.



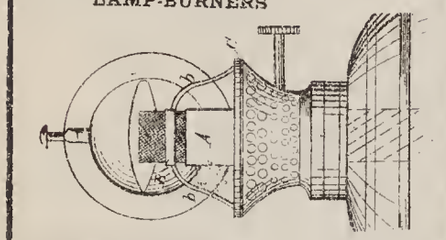
95,113, THOMAS HOUGHTON.
MACHINE FOR FORMING SCREW-THREADS ON SHEET-METAL CAPS.



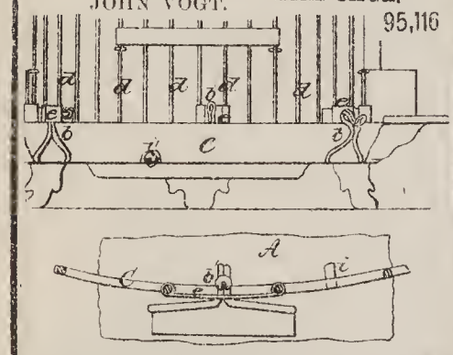
95,114, BERNARD HUGHES.
DANIEL HUGHES.
DREDGING-APPARATUS.



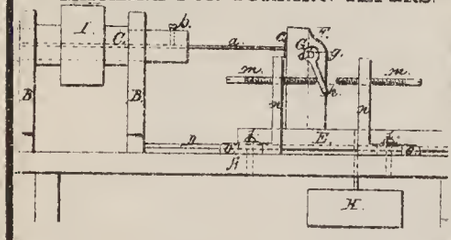
95,115, ROBERT HUTTON.
LAMP-BURNERS



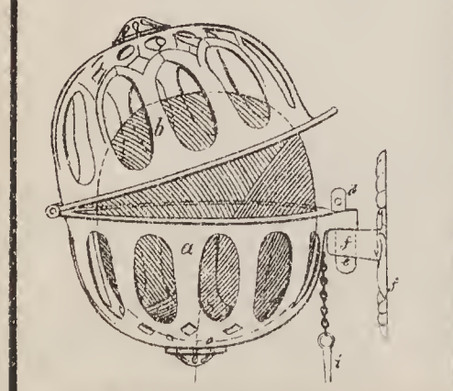
JNO. C. JEWETT.
JOHN VOGT.
BIRD-CAGE.
95,116



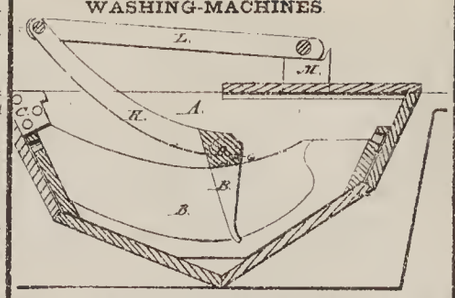
95,117, CLARK JILLSON.
MACHINE FOR TURNING TAPERS.



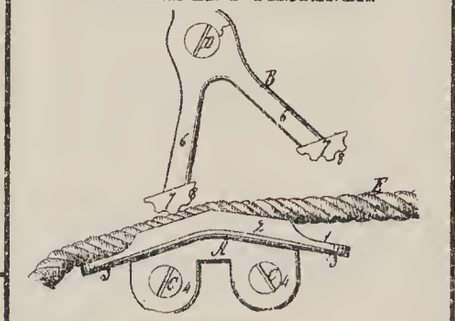
95,118, E. M. JUDD.
TWINE-HOLDER.



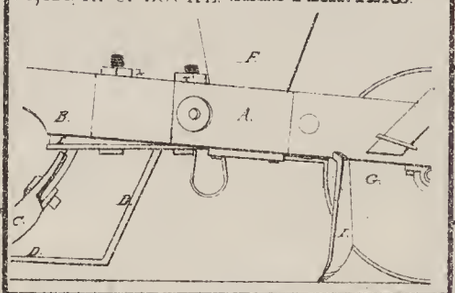
95,119, HENRY LIGHTY.
WASHING-MACHINES.



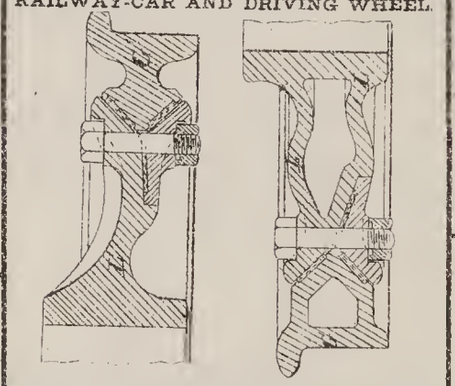
95,120, MARTIN H. LINEBACK.
CLOTHES-LINE FASTENER.



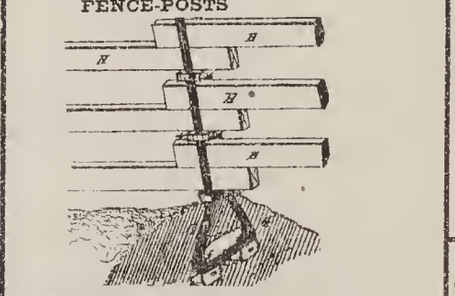
95,121, H. C. LOCKE. SEED-PLANTERS.



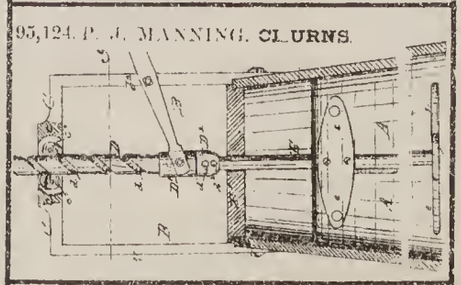
95,122, NATHAN C. LOMBARD.
RAILWAY-CAR AND DRIVING WHEEL.



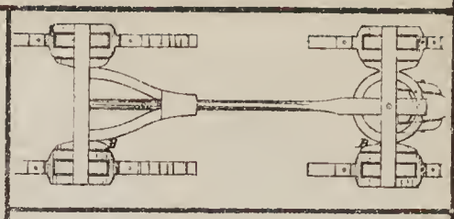
95,123 CLARK LOSEE.
FENCE-POSTS



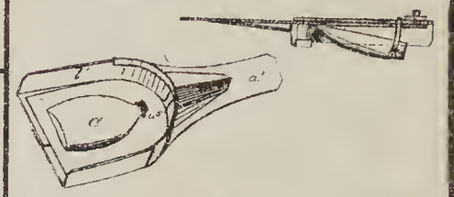
95,124, P. J. MANNING. CLURNS.



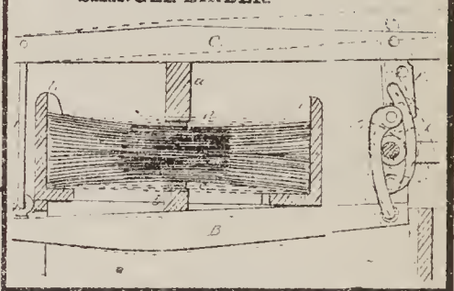
95,125, JAMES MARTIN SLEDS.



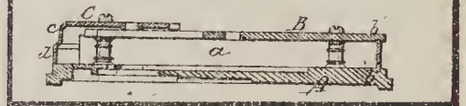
95,126, G. McDONALD.
DENTISTS' IMPRESSION-CUP.



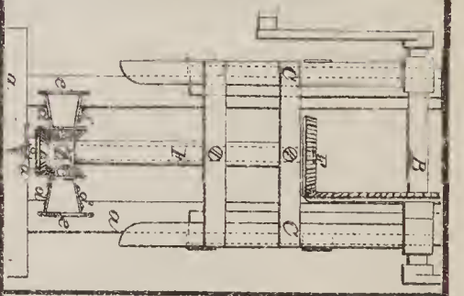
95,127, GEORGE E. MORE.
SHINGLE-BINDER.



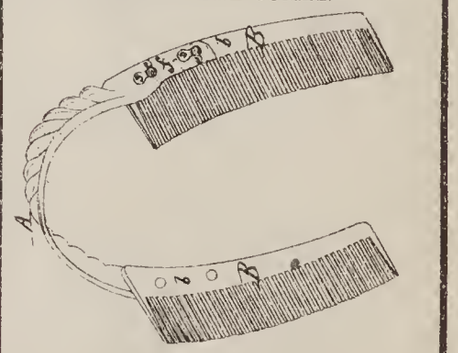
95,128, CHAS. S. MOSELEY. WATCHES.



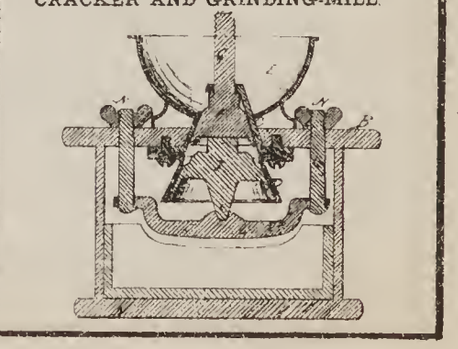
95,129, ARTHUR O. NEAL.
MORTISING-MACHINE.



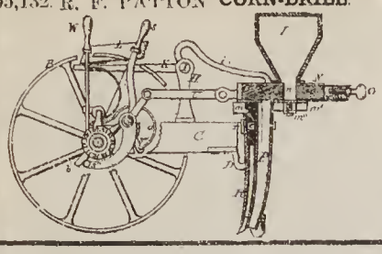
95,130, CHARLES HORACE NOYES.
CHILDS' ROUND COMBS.



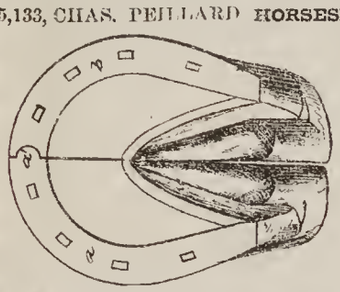
95,131 CHAS. PARKER.
CRACKER AND GRINDING-MILL.



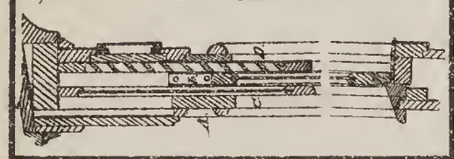
95,132. R. F. PATTON CORN-DRILL.



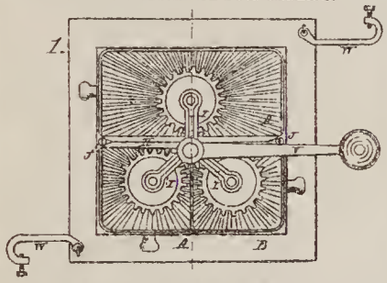
95,133, CHAS. PEILLARD HORSESHOES.



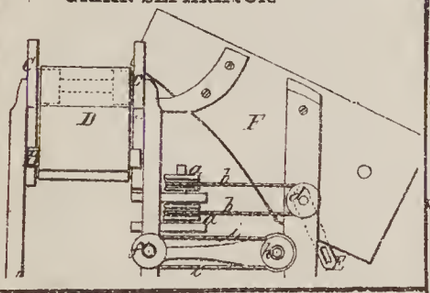
95,134. G. W. PERRY. CAR-WINDOWS.



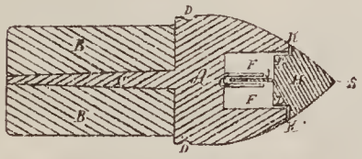
95,135, HENRY PETRIE.
COFFEE AND SPICE-MILLS.



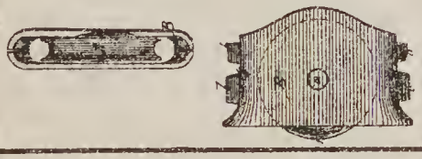
95,136, JOEL F. PLUM.
GRAIN-SEPARATOR.



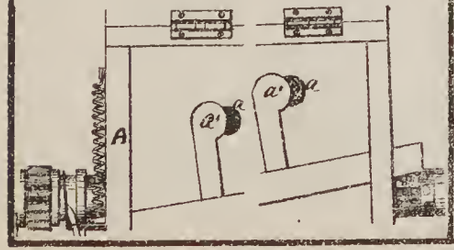
95,137, ABIATHER F. POTTER.
PROJECTILES.



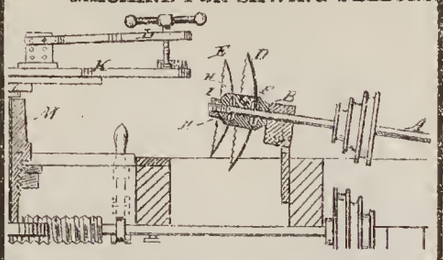
95,138, J. C. PRICE.
SASH-ROPE PULLEY.



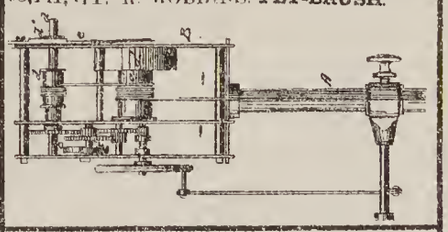
95,139.
WILSON S. PURDEY. CORN-PLANTERS.



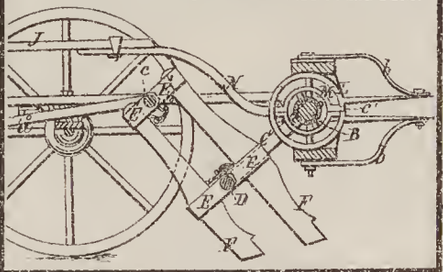
95,140, EZRA RHODES.
MACHINE FOR SAWING FELLOES.



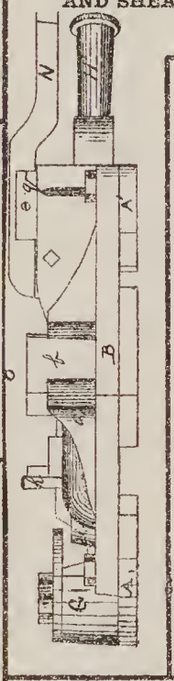
95,141, HY. R. ROBBINS. FLY-BRUSH.



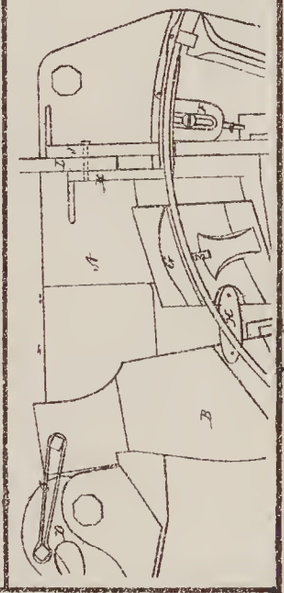
95,142, JAMES H. ROBINSON.
CORN AND COTTON-CULTIVATORS.



95,143. JOHN B. ROSE.
JEROM B. BROWN.
UPSET, PUNCH,
AND SHEARS.



95,144,
JOHN B. ROSE.
JEROM B. BROWN.
UPSET, PUNCH,
AND SHEARS.



95,145, GEORGE ROTH.
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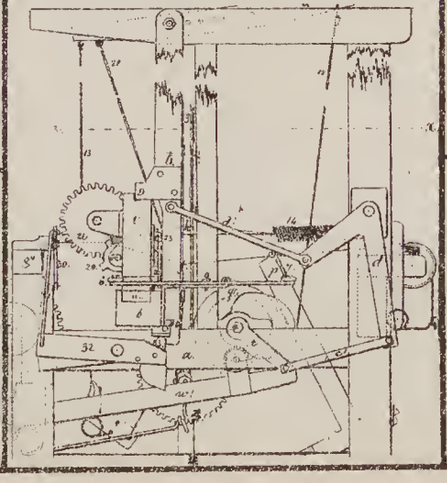

95,146, D. C. SAGE.
SHUTTER-HOOKS.

95,147. CHARLES W. SANBORN.
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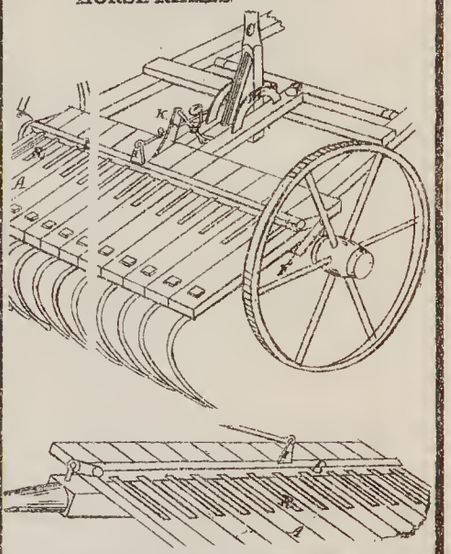

95,148, JOHN G. SCHILLER.
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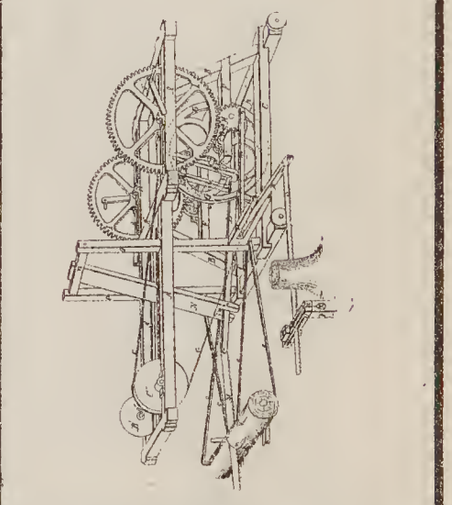

95,149, ANDREAS SCHOPP.
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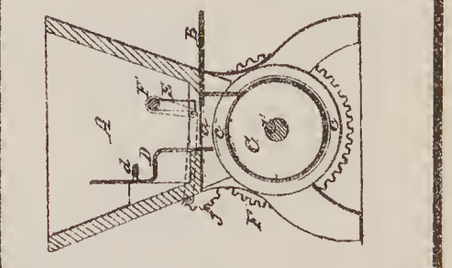

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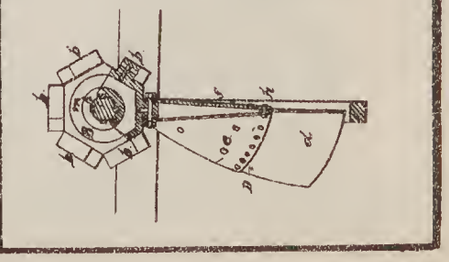
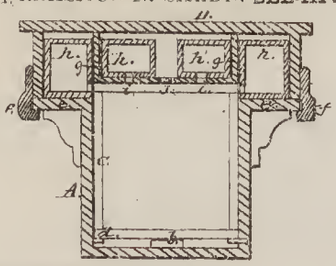


95,151, ERASMUS N. SHEDD. **BEE-HIVES.**



95,152, JAMES SHEEDY.
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95,153, JOHN P. SHERWOOD
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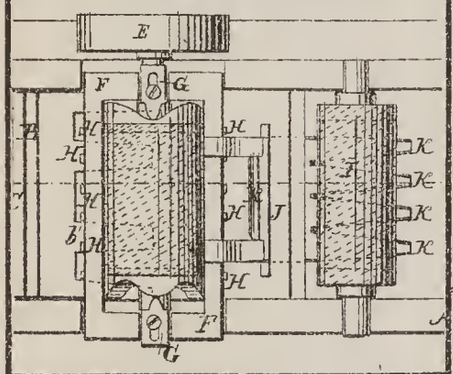

95,154, TOM SHREWSBURY.
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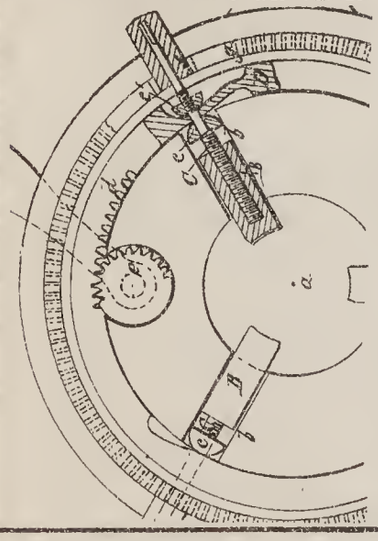

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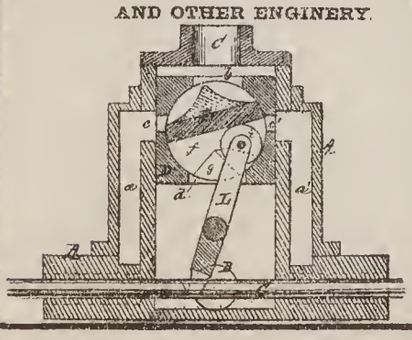
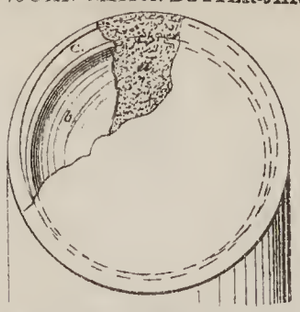
GERARD SICKELS. **VALVES FOR STEAM AND OTHER ENGINERY.**



95,156, JOHN SMITH. **BUTTER-JAR.**



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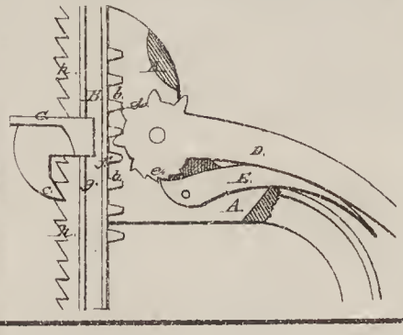

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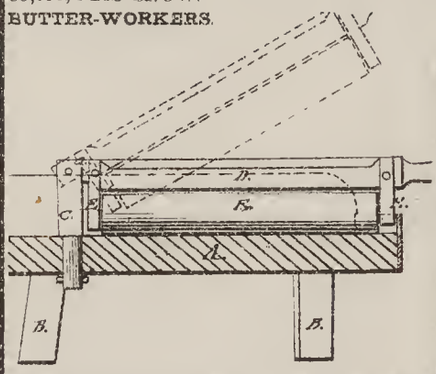
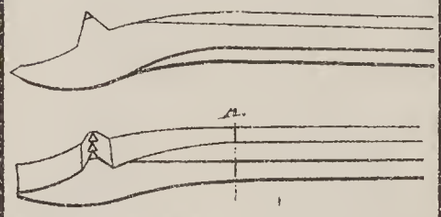


95,159. PALMER SPALDING. **PINCH-BAR.**



95,160, JOHN STEVENS. **PLAYING-CARDS.**

95,162, A. SUTHERLAND.
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95,161, SANFORD J. RUSSELL.
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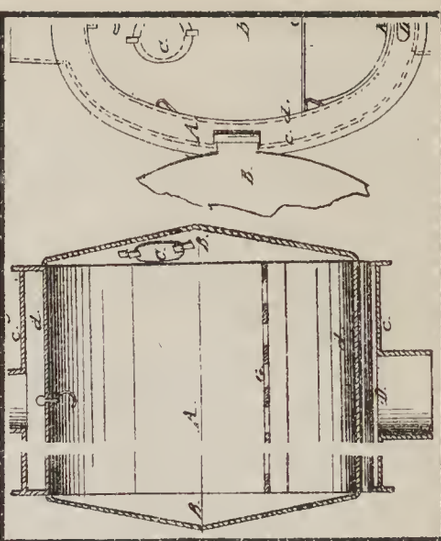
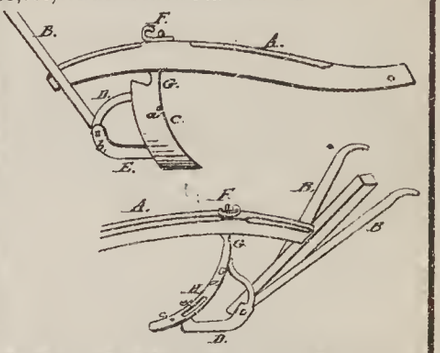


95,163, ABEL TEAGUE. **PLOWS.**



95,164, PARKER A. THAYER
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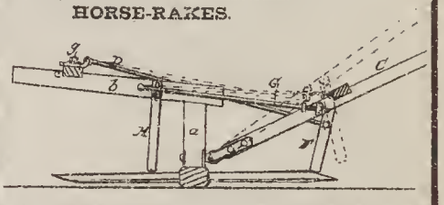

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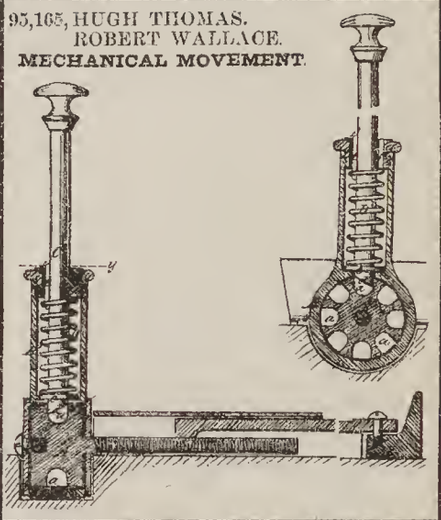

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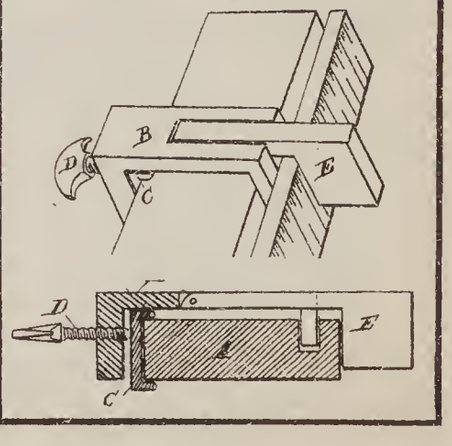

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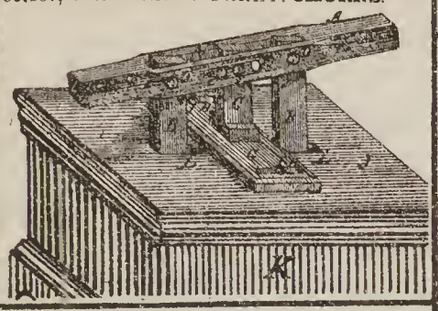

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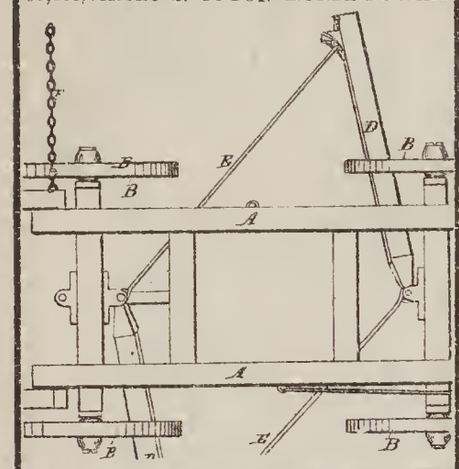
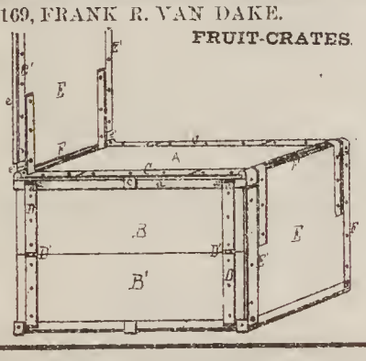


95,169, FRANK R. VAN DAKE. **FRUIT-CRATES.**



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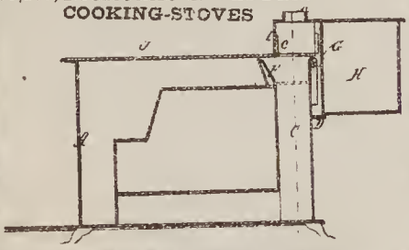

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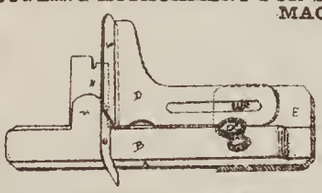
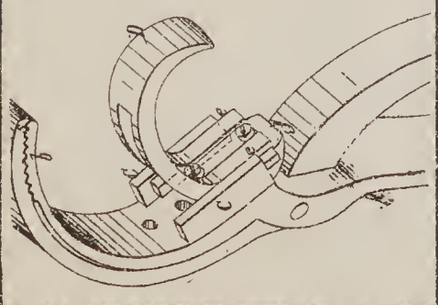
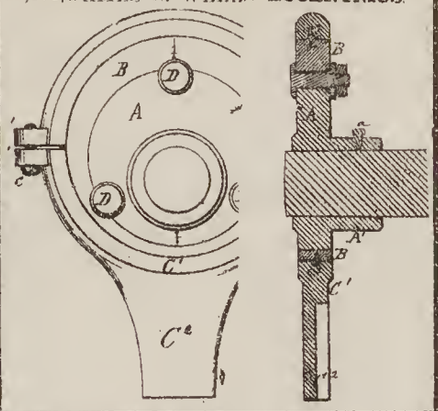


95,172, MICHAEL WALPOLE. **SHOEMAKERS' TOOL.**

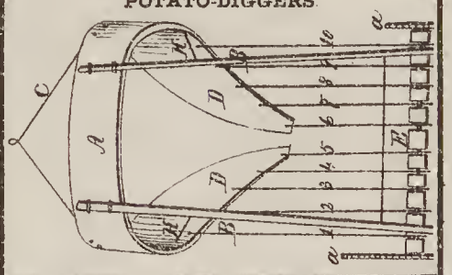


95,173, JOHN WARD **MEDICAL COMPOUND.**

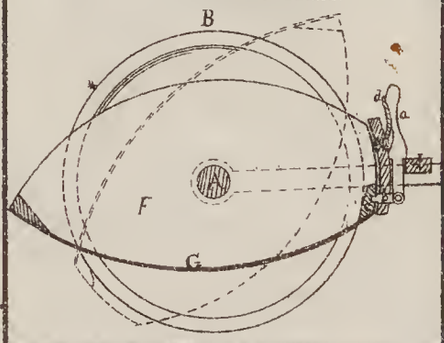
95,174, JAMES C. WELLS **ECCENTRICS.**



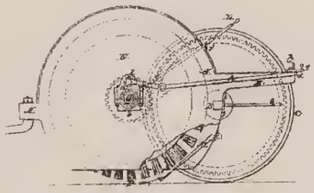
95,175, JAMES WHEELER **POTATO-DIGGERS.**



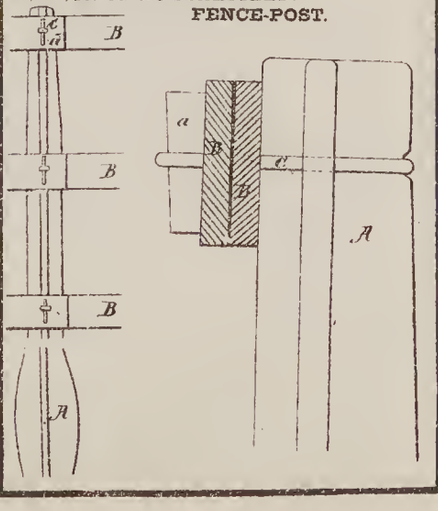
95,176, M. F. WICKERSHAM. **DUMPING-CART.**



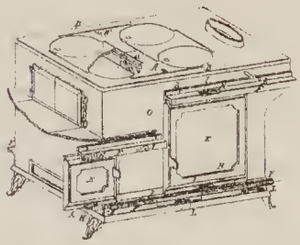
95,177, M. F. WICKERSHAM. **STREET-SWEEPING MACHINE**



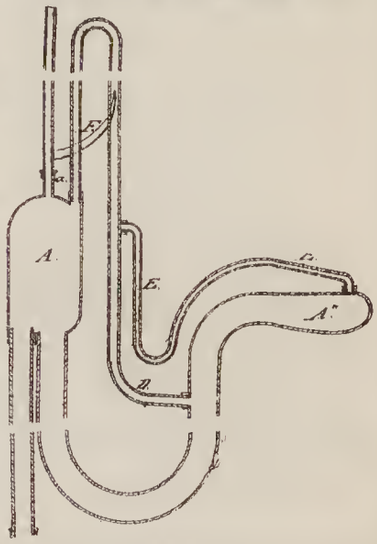
95,178, M. K. BUTTERFIELD. **FENCE-POST.**



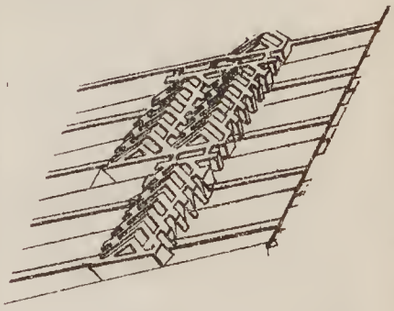
3,642, CLEMENT OLHABER. **COOKING-STOVE.**



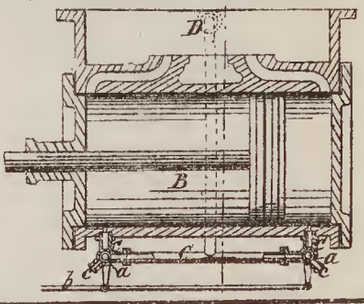
3,643, W. E. PRALL. **STEAM WATER-ELEVATORS**



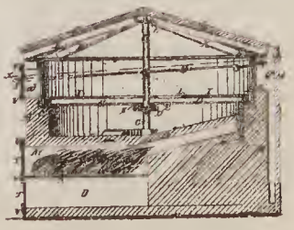
3,644, GEO. L. SMITH. **GRATES.**



3,645, J. STRÖHLER. **STEAM-ENGINES.**



3,646, D. A. KENNEDY. WM. WADSWORTH. E. D. MURRAY. **ROTARY OVEN.**



ILLUSTRATIONS OF PATENTS

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SEP. 28, 1869.

95,180, ORSON ARMSTRONG.
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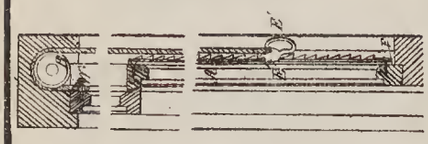

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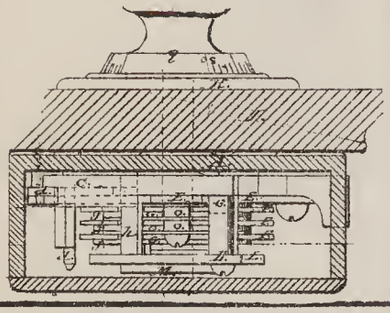

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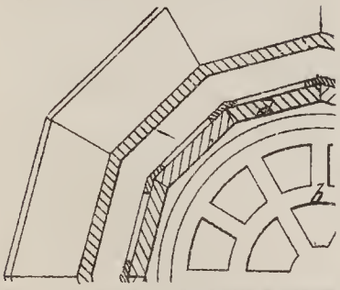

95,183. BURROUGHS BEACH.
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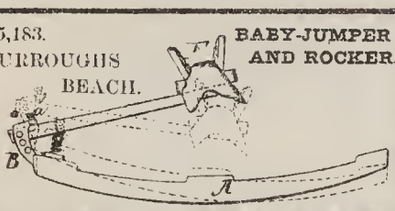

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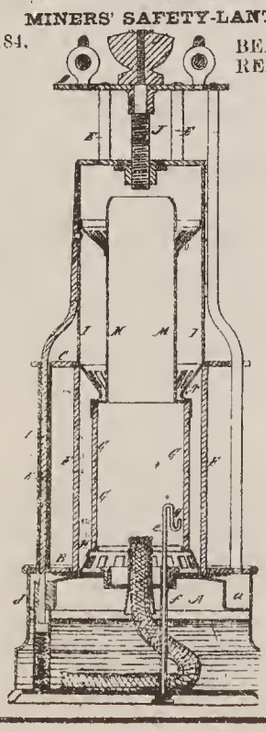
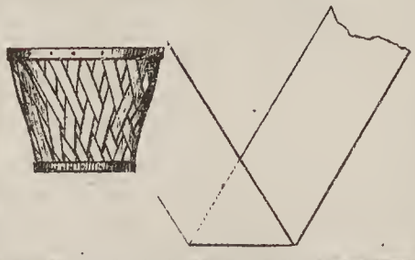
95,184. BEAUFILS. REXROTH.



95,185, **BASKET.** L. W. BEECHER.



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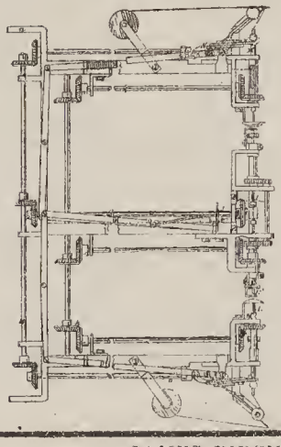

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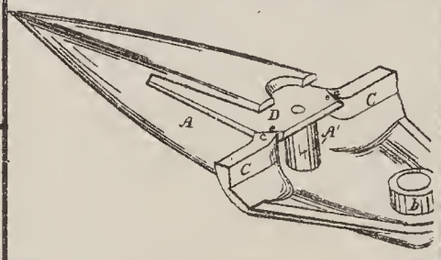

95,188, OLPHA BONNEY, JR.
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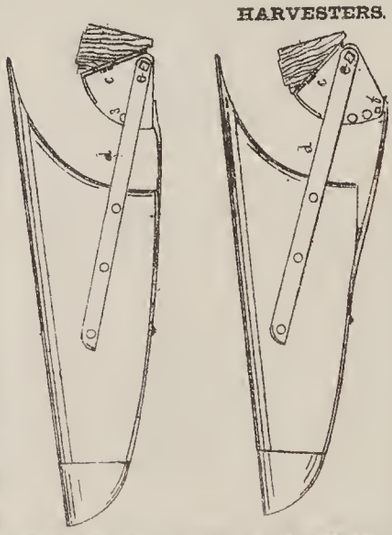

95,189.
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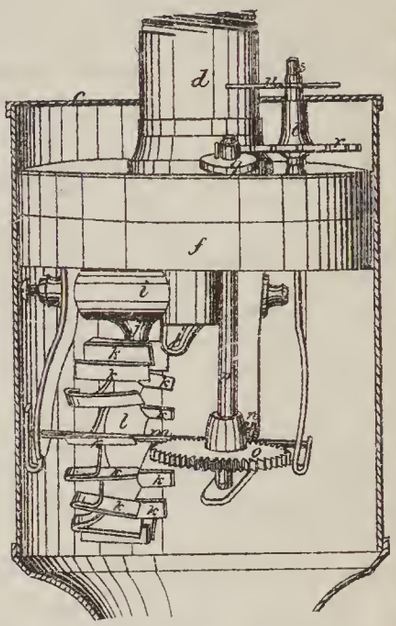
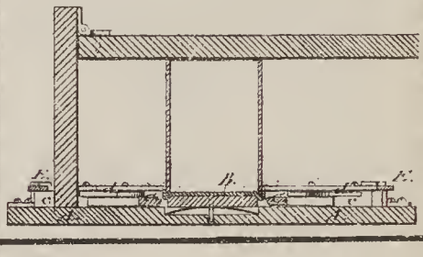
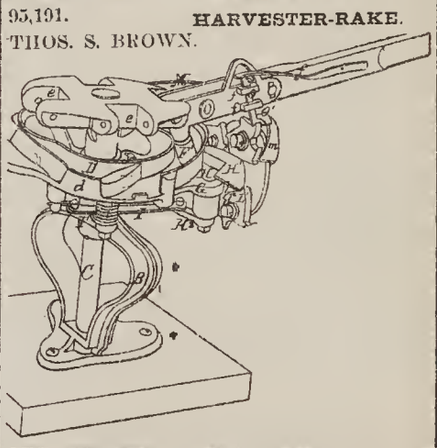
WILLIAM H. BROWN **LIQUID-METERS**



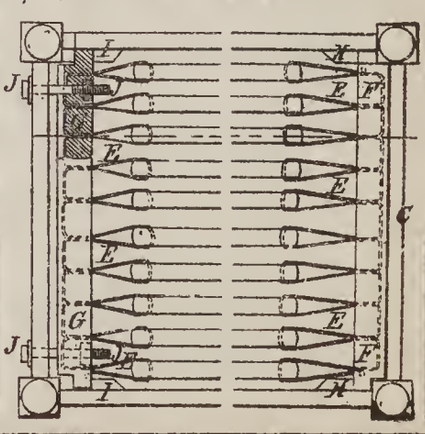
FASTENING BOTTOMS TO CANS.
95,190, REUBEN BRADY.



95,191. THOS. S. BROWN.
HARVESTER-RAKE.

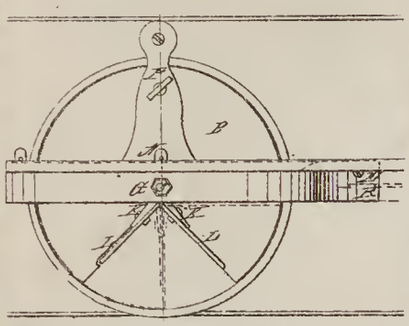


95,192. DAVID M. BYE. **BED-BOTTOM.**



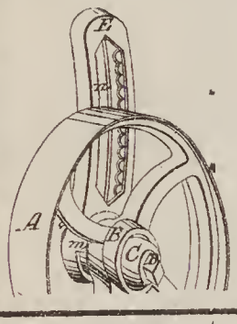
95,193, W. E. CAMERON. A. A. DETTLAFF.

MITRING PRINTERS' RULES.

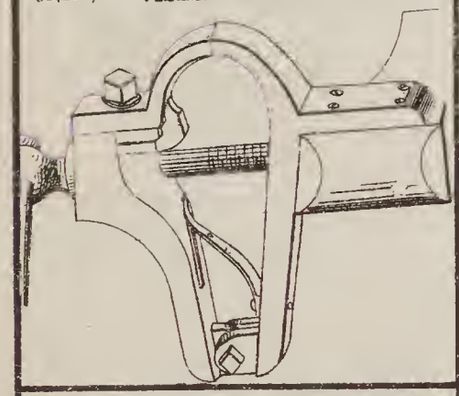


95,194, EDWIN A. CHUBB.

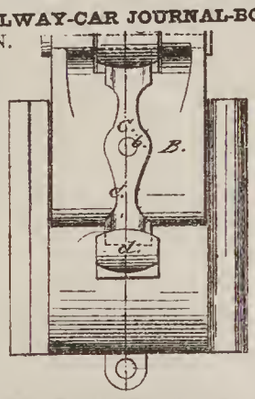
PLOW-WHEEL



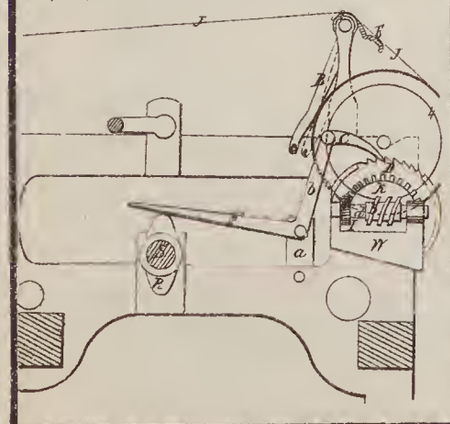
95,195, **VISES.** CHARLES A. COLE.



95,196, **RAILWAY-CAR JOURNAL-BOX.** J. B. COLLIN.

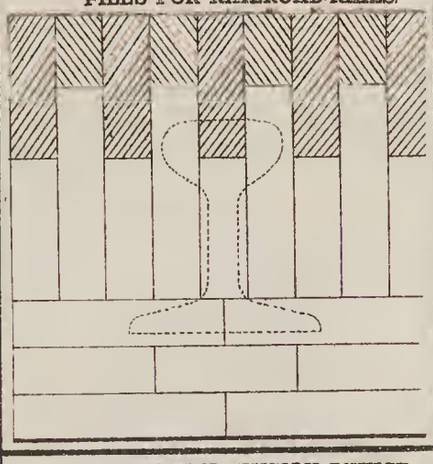


LET-OFF MECHANISM FOR LOOMS. 95,197, DAVID M. COLLINS.

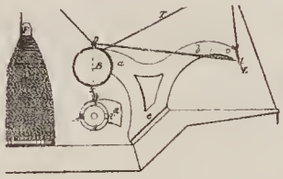


95,198. ALFRED B. COREY. **LOOM-HARNESS.**

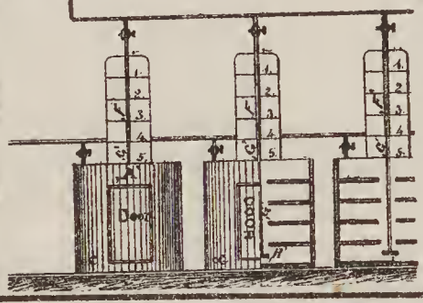
95,199, W. E. C. COXE. **PILES FOR RAILROAD-RAILS.**



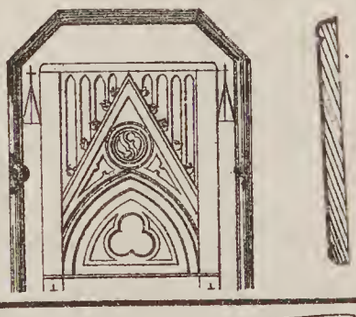
95,200, **YARN-TENSION DEVICE FOR KNITTING-MACHINES** JOHN CRANDELL.



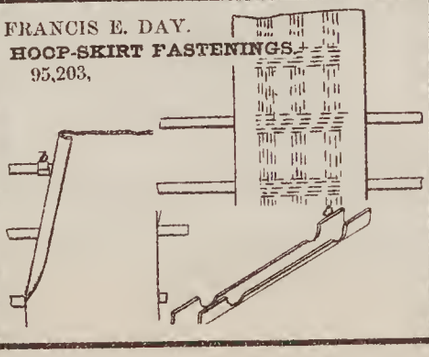
95,201, JAMES CUDDY. **MANUFACTURE OF WHITE LEAD.**



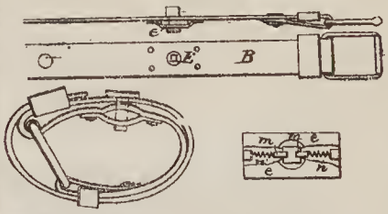
95,202, J. A. DANDRIDGE. **BURIAL-CASE.**



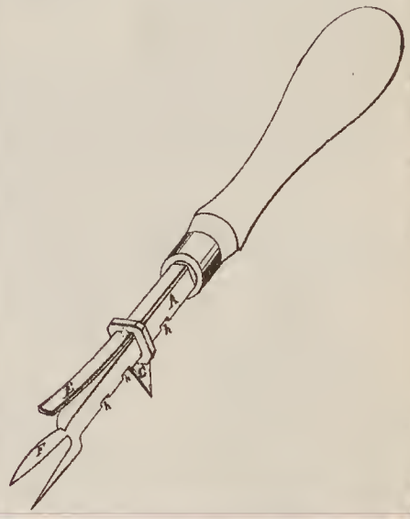
FRANCIS E. DAY. **HOOP-SKIRT FASTENINGS.** 95,203,



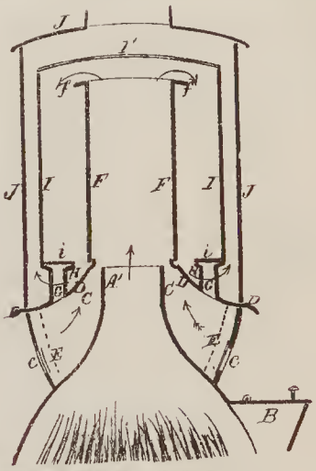
95,204, JOHN DEWE. **SEAL-LOCKS FOR BAGS.**



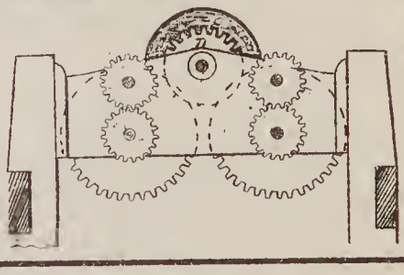
CAN-OPENER. EUGENE F. DEWEY. 95,205.



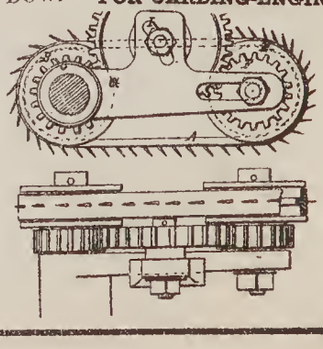
COAL-STOVE. 95,206, RICHARD S. DILLON.



JACOB DOBBINS. **LATH-MACHINE.** 95,207,



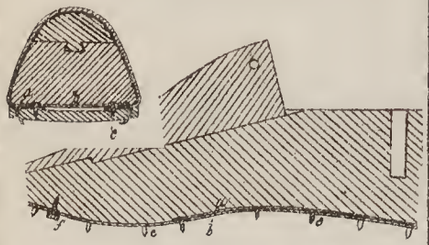
95,208, A. A. DOW. **FEEDING-MECHANISM FOR CARDING-ENGINE.**



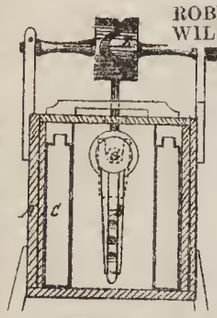
95,209, HENRY S. DRAPER.
MEDICAL EXTRACT.

CHARLES S. DUNBRACK
BOOTS AND SHOES.
95,210,

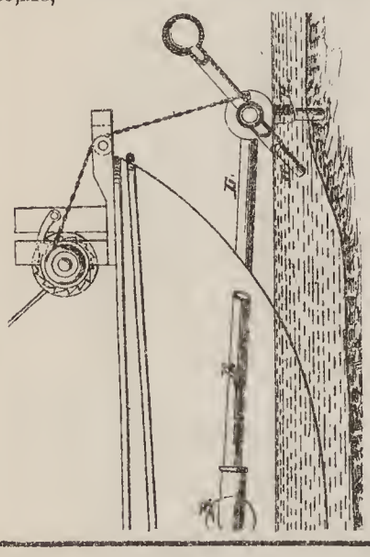
MANUFACTURE OF SHOES.
95,211, CHARLES S. DUNBRACK.



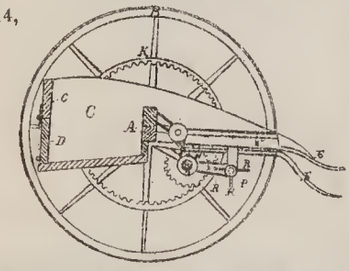
ROBERT ELARTON.
WILLIAM J. ELARTON
CHURNS.
95,212,



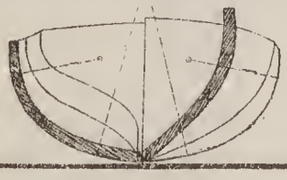
HYDRAULIC DREDGING-MACHINE.
95,213, R. S. ELLIOTT.



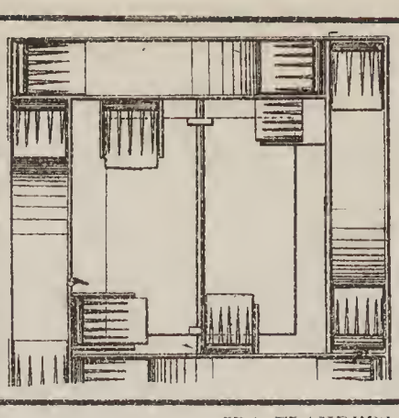
EDW. I. ENO. **CORN-HARVESTERS.**
95,214,



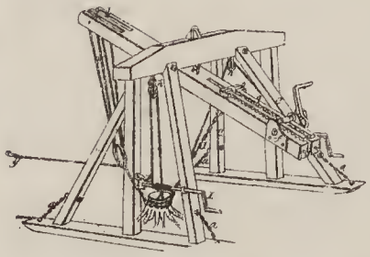
95,215, WILLIAM A. FARLEY.
CONSTRUCTION OF VESSELS.



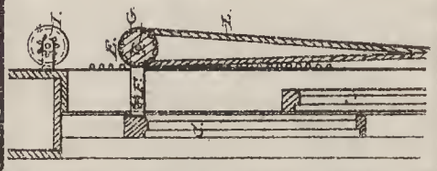
95,216,
RAT-TRAP. J. WARD FIFIELD.



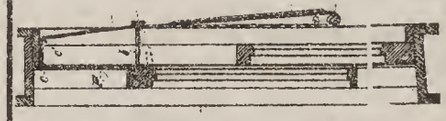
95,217, IRA FLANDERS.
STUMP-EXTRACTOR.



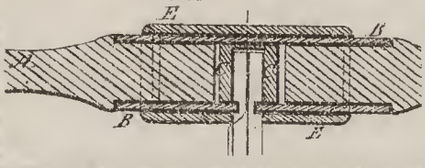
GEORGE P. FULLER.
95,218, **CURTAIN-FIXTURE.**



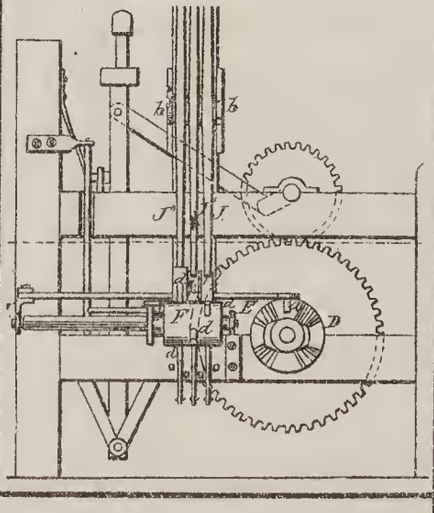
MODE OF HANGING WINDOW-SHADES.
95,219, GEORGE P. FULLER.



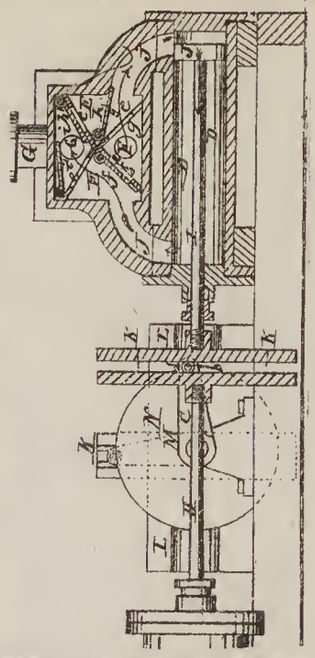
95,220, **AUGER-HANDLES.**
DAVID W. GEORGE.



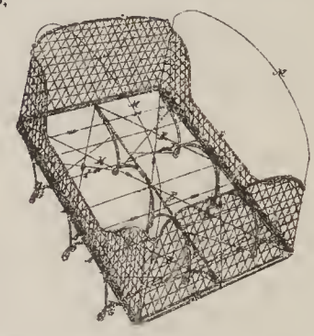
HARNESS-MECHANISM FOR LOOMS.
95,221, A. F. GIBBONEY.



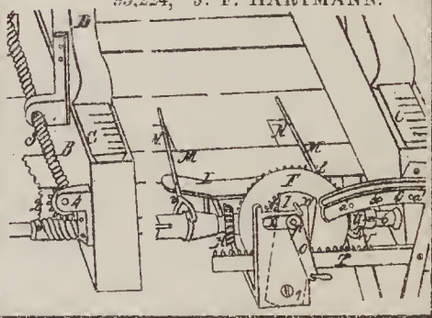
CHALKLEY GRISCOM.
LEWIS GRISCOM.
JOHN P. GRISCOM.
95,222,
PUMPS.



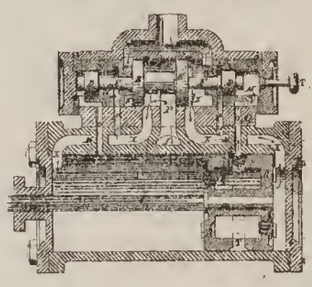
BEDSTEAD. JONES HARDING
95,223,



HEAD-BLOCKS FOR SAW-MILLS.
95,224, J. F. HARTMANN.

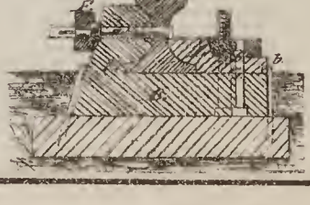


95,225, WM. B. HAYDEN.
DIRECT-ACTING STEAM-ENGINES

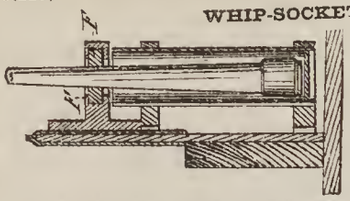


GEORGE HEIM. 95,226,
COMPOUND FOR BUILDING-PURPOSES.

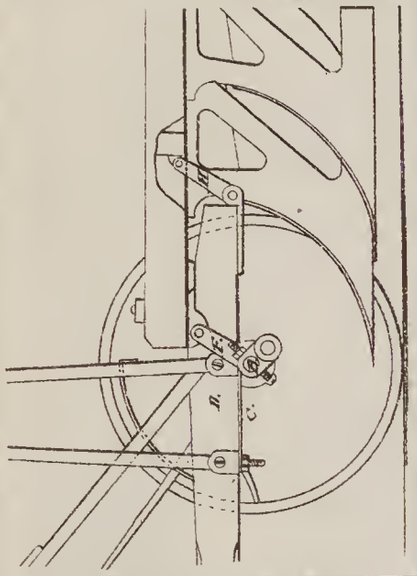
95,227, **RAILWAY-RAIL CHAIR.**
GOTTFRIED AUGUST H. HERTZER.



95,228, W. S. HILL.
WHIP-SOCKETS.

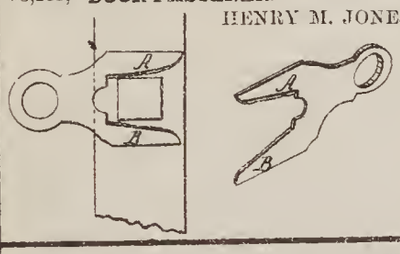


95,229, HORACE R. HUIE.
GANG-PLOWS.



95,230 SUSPENDED.

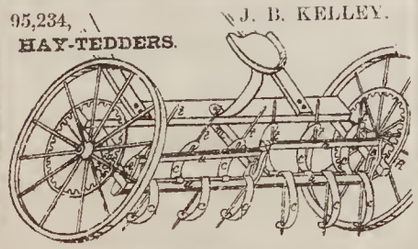
95,231, **DOOR-FASTENER.**
HENRY M. JONES.



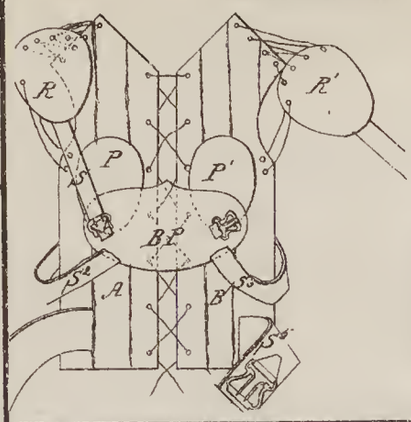
95,232. **SPRING CURTAIN-ROLLER.**
E. M. JUDD.

AUSTIN KELLEY.
95,233, **RUFFLES.**

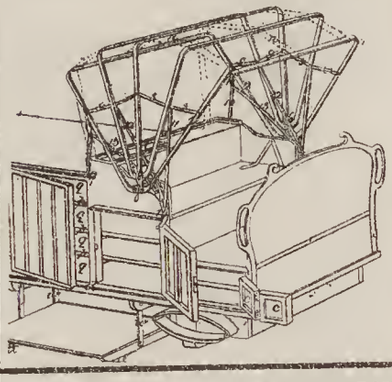
95,234, J. B. KELLEY.
HAY-TEDDERS.



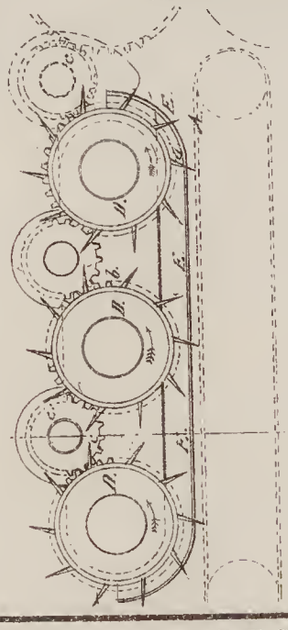
95,235, J. EMERSON KENT, M. D.
SHOULDER-BRACE.



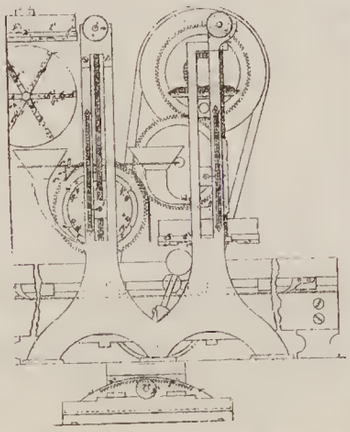
PEDDLERS WAGON.
95,236, SALEM T. LAMB.
GEORGE A. RANKIN.



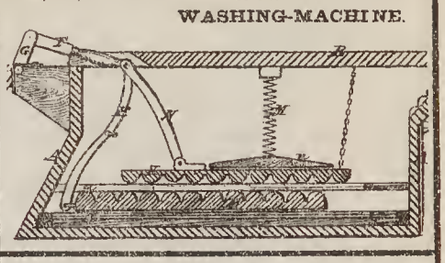
95,237, JAMES LAWTON.
FEEDING-ATTACHMENT FOR CARDING-ENGINE.



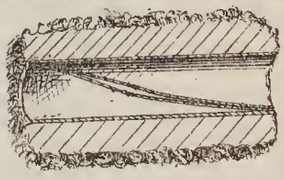
95,238, T. H. LEAVITT.
MACHINE FOR DRESSING STONE.



95,239, G. A. LEIGH
WASHING-MACHINE.

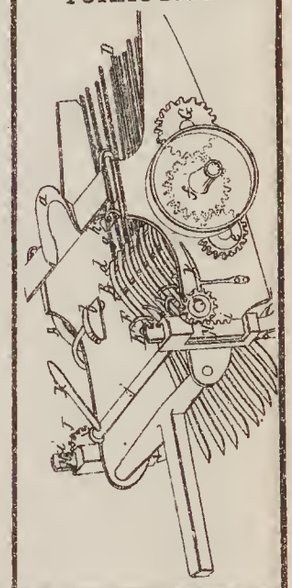


B. LEVY.
MUFFS.
95,240,

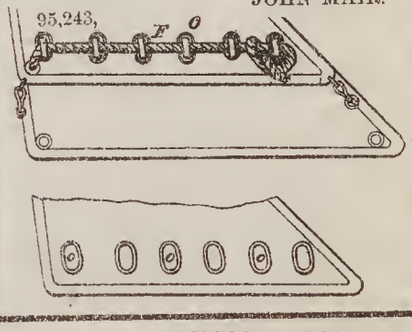


JOHN S. LEWIS.
SEED-PLANTERS.
95,241.

95,242,
DANIEL LOCKE.
POTATO-DIGGERS.

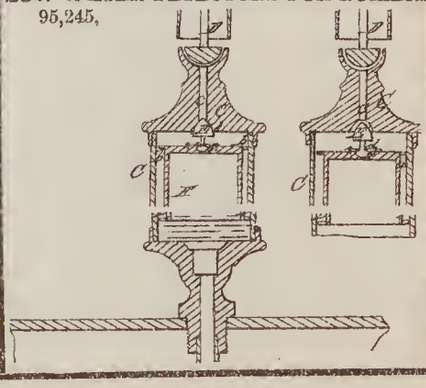


SAIL-LATCHETS. JOHN MAIR.
95,243,

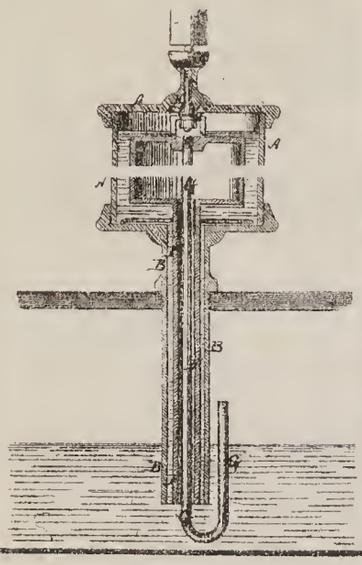


JOSEPH MARSHALL.
95,244, **CLOTH AND HAT-BRUSH.**

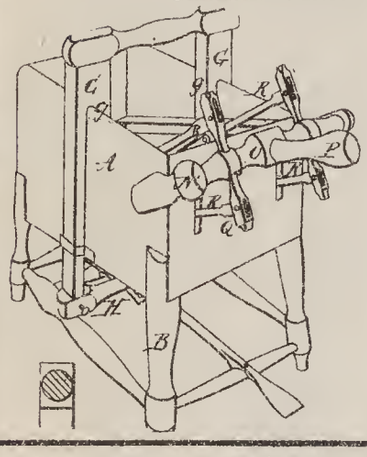
G. B. MASSEY.
LOW-WATER DETECTORS FOR BOILERS.
95,245,



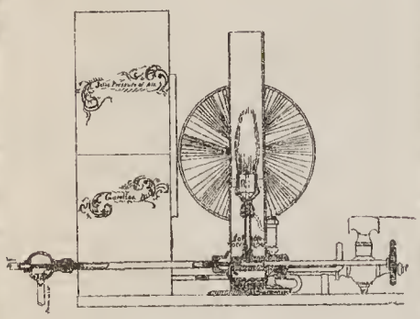
95,246, G. B. MASSEY.
HIGH AND LOW-WATER INDICATORS.



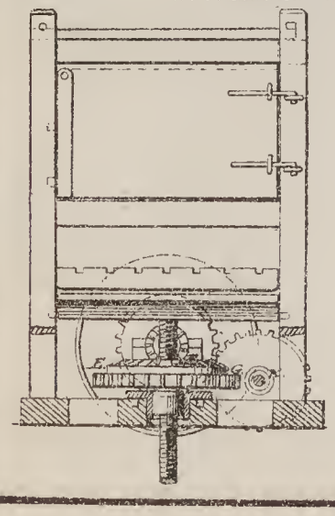
95,247, **WASHING-MACHINE.**
GERMAN J. MATSON.



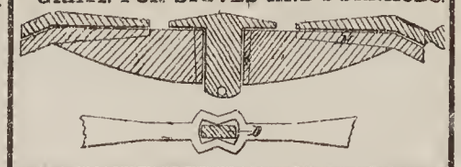
95,248, HIRAM S. MAXIM.
HEAD-LIGHT. JAS. RADLEY.



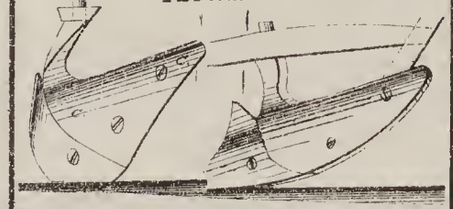
PRESSES.
95,249, W. J. McDERMOTT.



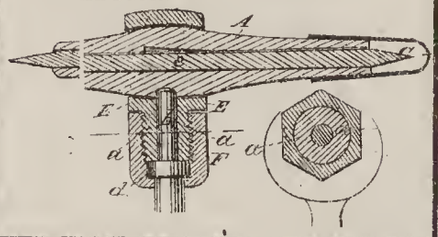
95,250, J. R. McINTOSH.
GRATE FOR STOVES AND FURNACES.



95,251, J. C. McVUTT.
PLOWS. A. B. FURMAN.

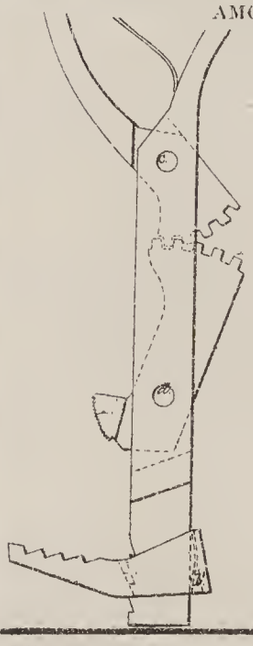


95,252, CHARLES METZGER.
MILL-PICK. G. R. RORABACK.

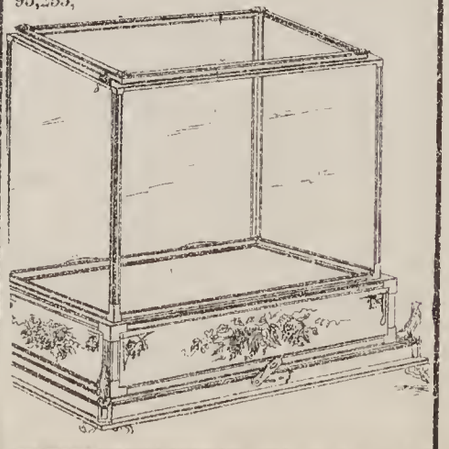


95,253, CHAS. C. MORGAN.
FASTENING BUTTONS ON SHOES, &c.

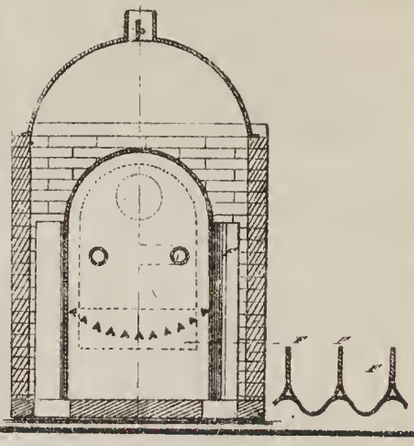
95,254, **HORSESHOE-NAIL CLINCHER.**
AMOS MORLEY.



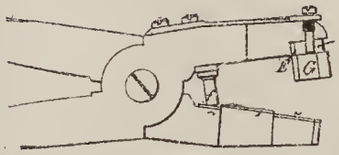
FERNERY. CHARLES L. OSBORN.
95,255,



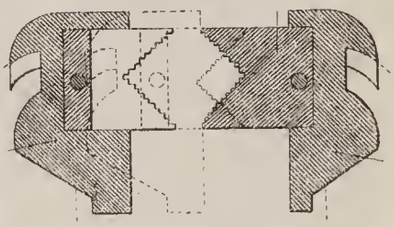
95,256, A. L. OTIS **HOT-AIR FURNACE.**



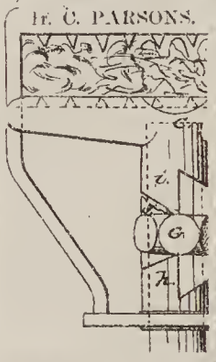
95,257, JOHN S. PALMER.
INSTRUMENTS FOR SETTING BUTTON-HOOKS.



95,258, **VISE.** CHAS. PARKER.



95,259, **MOP-HEAD.**
H. C. PARSONS.



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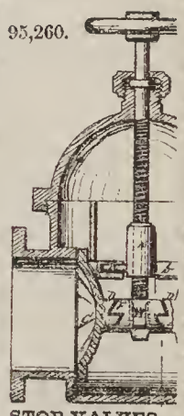
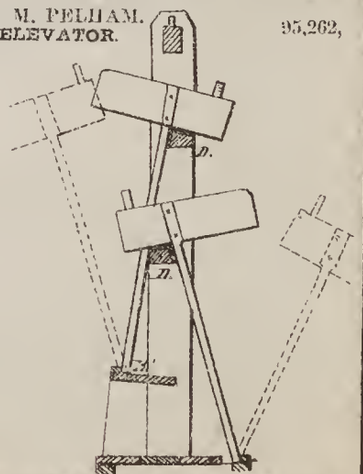


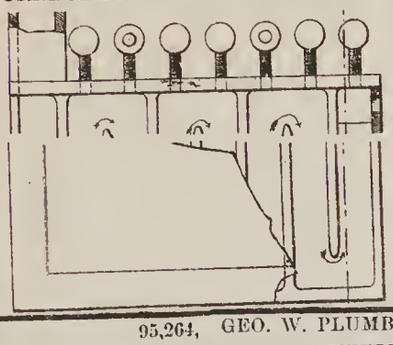
STOP-VALVES.
JOHN PATERSON.

HORATIO L. PEIRCE. 95,261,
TRAVELLER FOR SPINNING-RING.

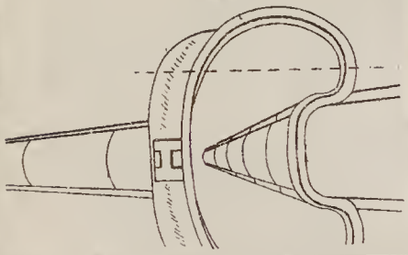
THOS. M. PELHAM.
HOD-ELEVATOR. 95,262,



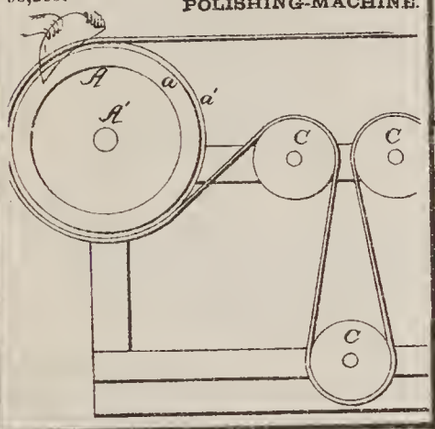
95,263. JOSEPH PHILIPS. DAVIS KEELEY.
FURNACE-DOORS.



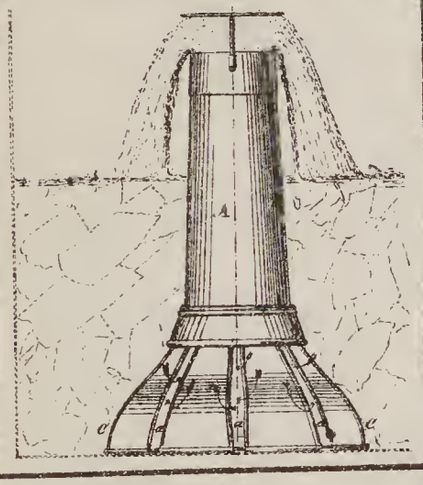
95,264, GEO. W. PLUMB.
IMPLEMENT FOR SIGHTING RAILROAD-TRACKS.



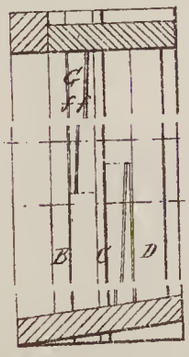
95,265. P. F. RANDOLPH.
POLISHING-MACHINE.



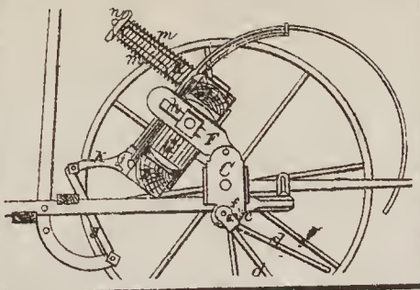
95,266. THOS. W. R. RAYNER.
WASH-BOILER TUBE.



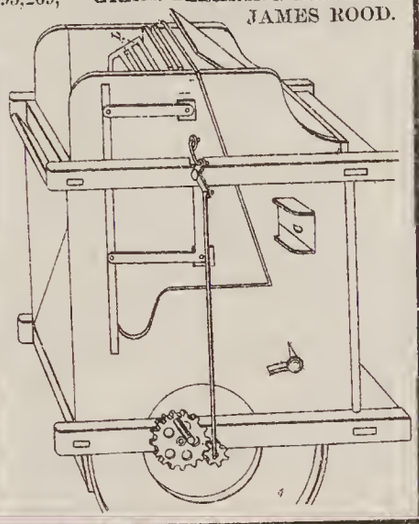
WINDOW. HENRY REDLICH.
95,267.



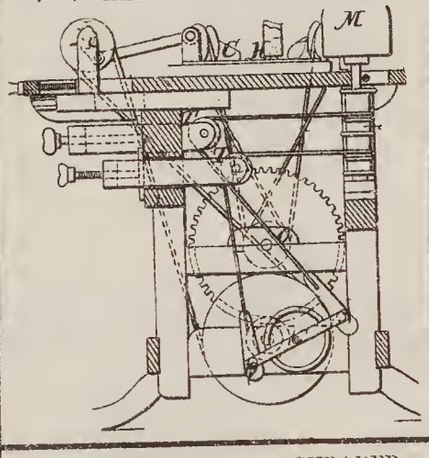
95,268, MARTIN C. REMINGTON.
HORSE HAY-RAKES.



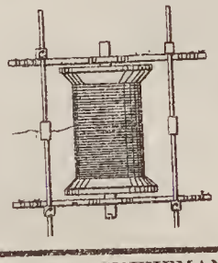
95,269, **GRAIN-CLEANING MACHINE.**
JAMES ROOD.



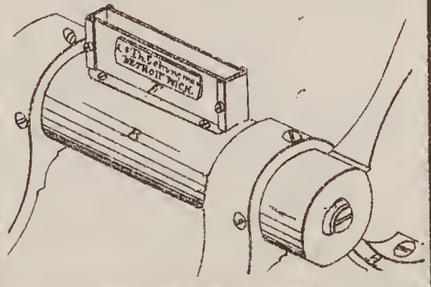
JOHN ROSENCRANZ.
95,270, **HAT-POUNCING MACHINES.**



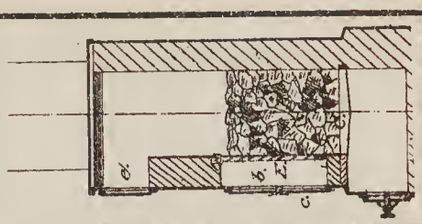
95,271. THEO. O. L. SCHRADER.
THREAD-GUIDE FOR SPOOLS.



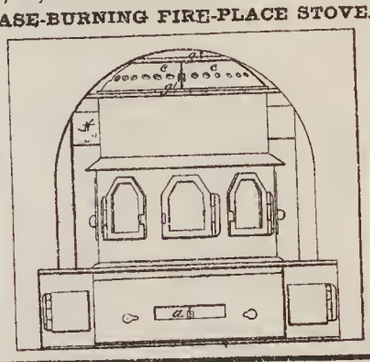
95,272. ALBERT SCHUNEMAN.
THEODORE SCHUNEMAN.
"PLUG-TOBACCO" CUTTER.



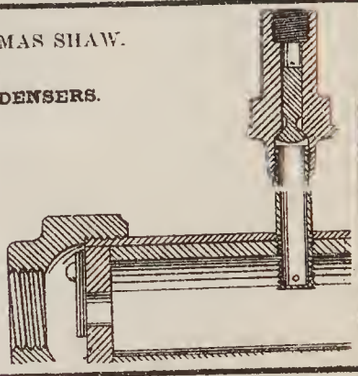
95,273, EDMUND SCHWIEDTER.
COAL-STOVE.



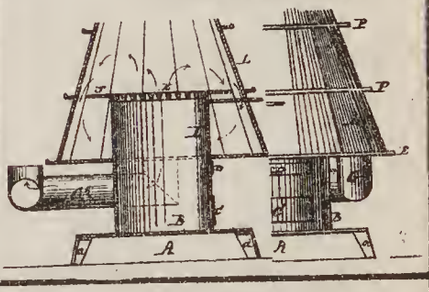
95,274, S. B. SEXTON.
BASE-BURNING FIRE-PLACE STOVE.



THOMAS SHAW.
95,275,
CONDENSERS.

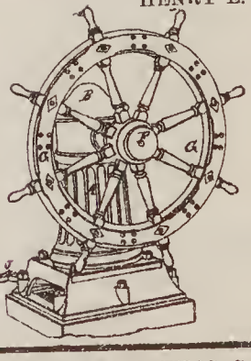


95,276, CHAS. J. SHEPARD.
LAUNDRY-STOVE AND HEATING-FURNACE.

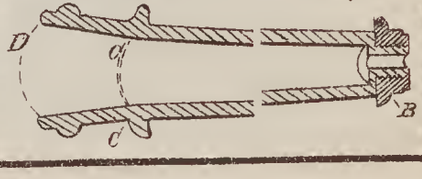


95,277, EDWARD G. SHORTT.
SHAFT-COUPLING

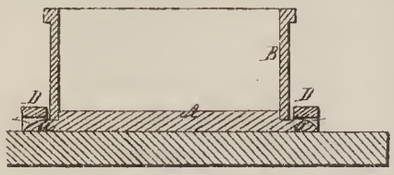
95,278, **STEERING-APPARATUS.**
HENRY E. SKINNER.



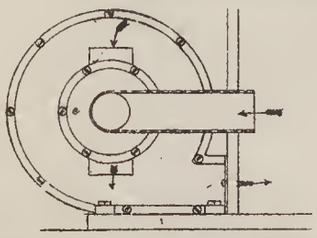
AXLE-SKEIN. THOS. S. SLEEPER.
95,279.



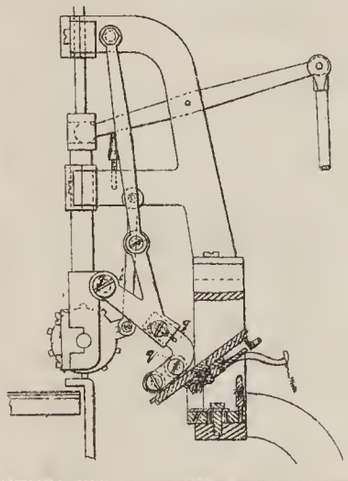
95,280, CHAS. E. SPAULDING.
FEED-MEASURE FOR STOCK



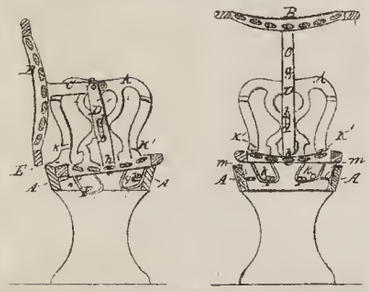
95,281, B. F. STURTEVANT.
HOT-AIR FURNACE.



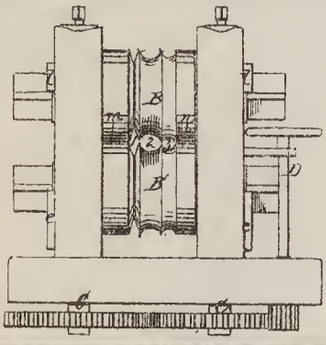
95,282. HENRY SUTCLIFFE.
NUMBERING-MACHINES.



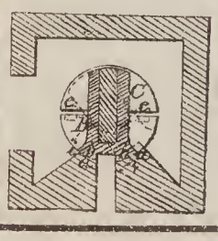
95,283, JOHN B. SUTHERLAND.
RAILWAY-CAR SEAT.

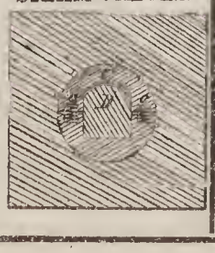


95,284, WM. A. SWEET.
ROLL FOR SPLITTING RAILROAD-RAILS.

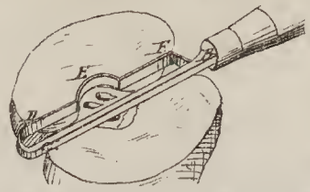


95,285,
WM. A. SWEET. **STEAM-VALVES.**

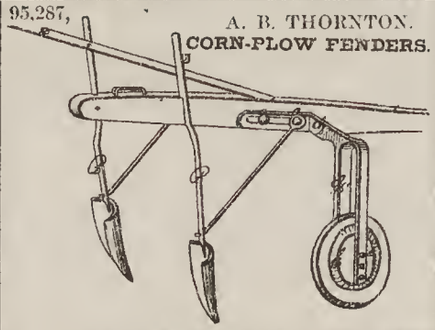




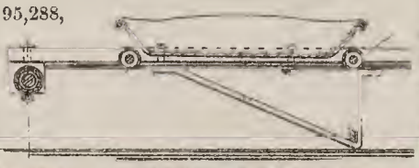
95,286, G. L. SWETT.
B. F. DRAKE. **APPLE-CORER.**



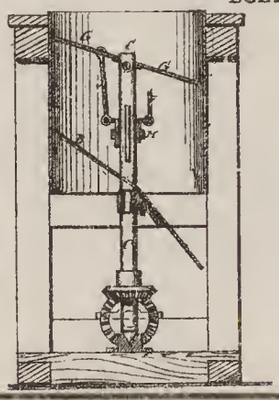
95,287, A. B. THORNTON.
CORN-PLOW FENDERS.



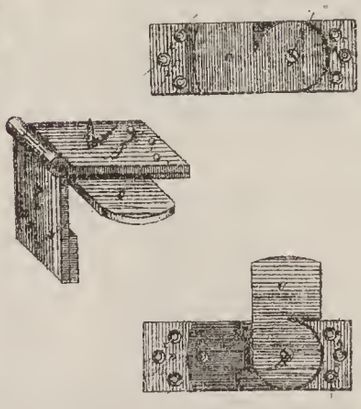
B. W. TUTHILL. **WHEELBARROWS.**
95,288,



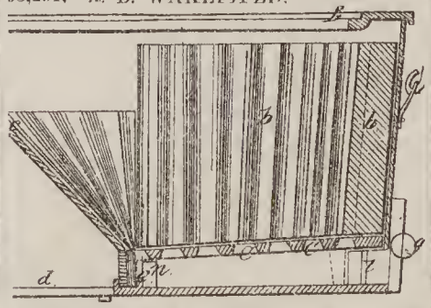
95,289, OSCAR VAN TASSELL.
BOLT-FEEDERS.



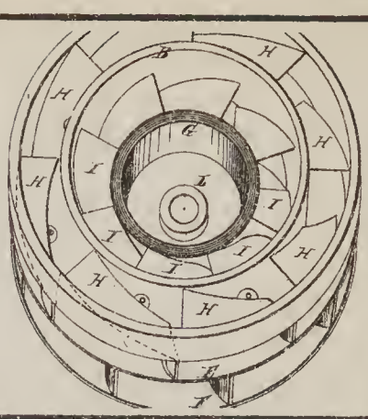
95,290, ADOLPH VELGUTH. **HINGE.**



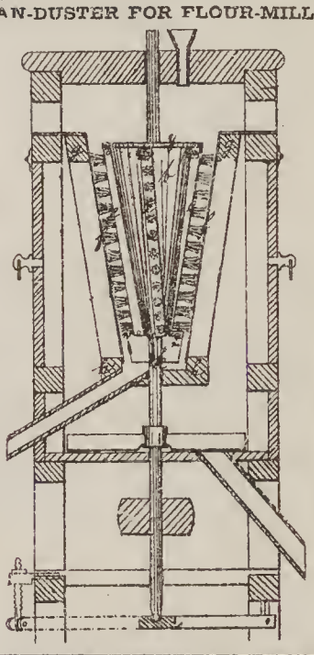
95,291, R. B. WAKEFIELD. **BRAZIER.**



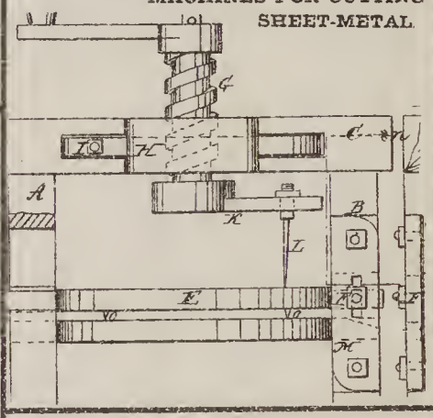
C. B. WALSH. 95,292,
TURBINE WATER-WHEELS.



95,293, JOHN E. WEAVER.
BRAN-DUSTER FOR FLOUR-MILLS.

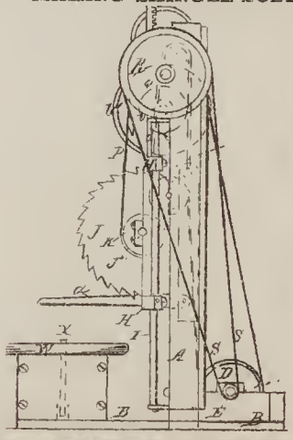


95,294, JOHN A. WELLS.
MACHINES FOR CUTTING SHEET-METAL.

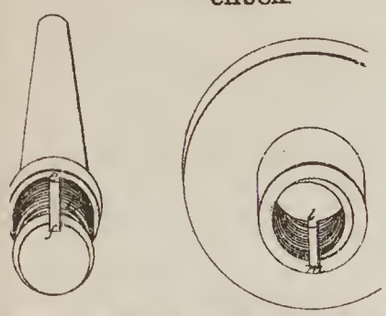


95,295, JAMES D. WHELPLEY.
JACOB J. STORER.
OBTAINING WROUGHT-IRON DIRECTLY FROM THE ORE.

95,296, DANIEL H. WHITNEY.
MACHINE FOR MAKING SHINGLE-BOLTS.

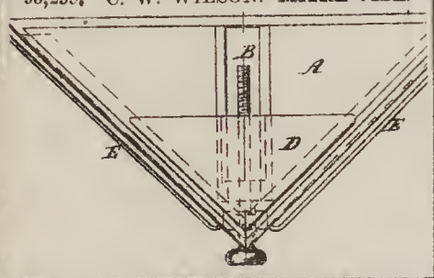


95,297, EPHRAIM S. WILLIAMS.
CHUCK.

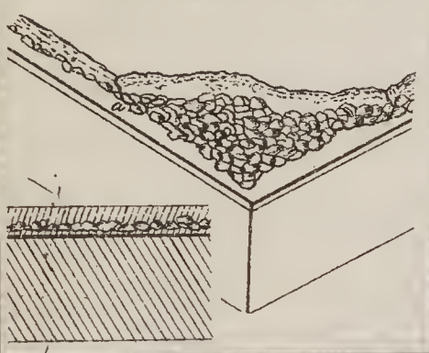


ELI his mark WILLS. **MEDICAL COMPOUND.**
95,298,

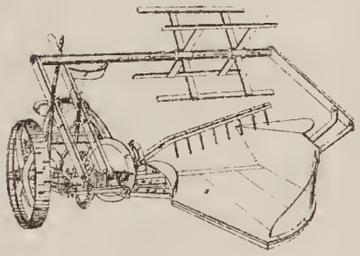
95,299. C. W. WILSON. **MITRE-VISE.**



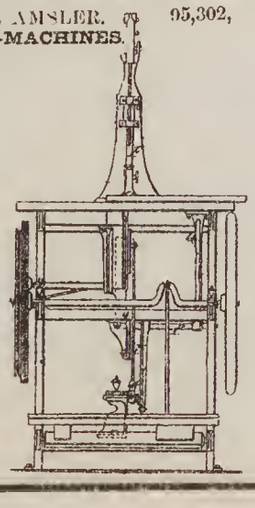
95,300. W. E. WORTHEN.
T. NEW.
MODE OF PROTECTING PLASTERED WALLS AGAINST DAMPNESS.



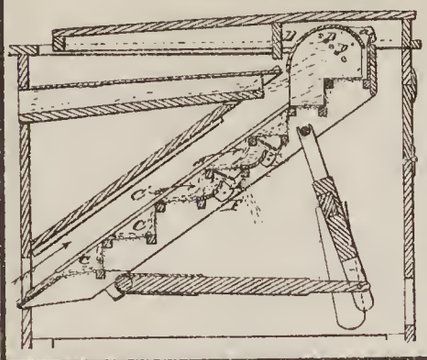
95,301, NICHOLAS ALLSTATTER.
HARVESTERS.



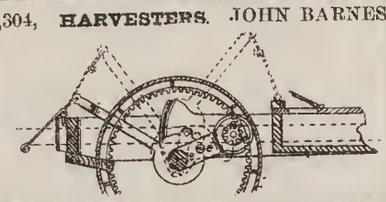
CASIMIR AMSLER. 95,302,
SAWING-MACHINES.



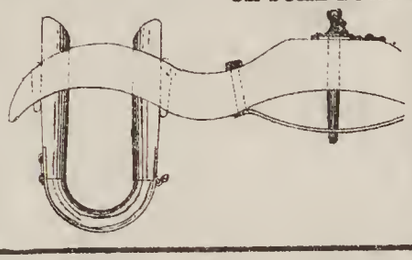
95,303, JOHN E. ANDERSON.
GRAIN-SCREENS.



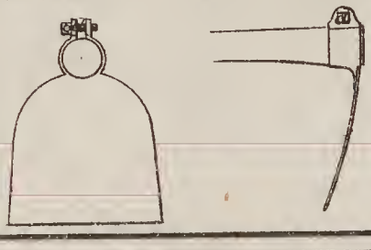
95,304, **HARVESTERS.** JOHN BARNES.



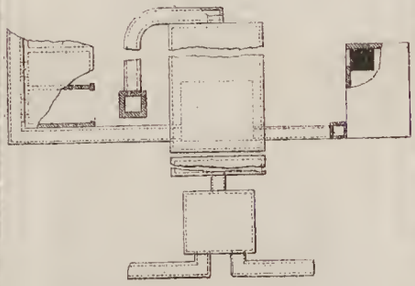
95,305, W. G. BECKWITH.
OX-YOKE BOW.



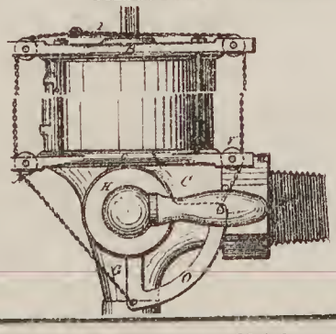
95,306. **HOES.** W. G. BECKWITH.



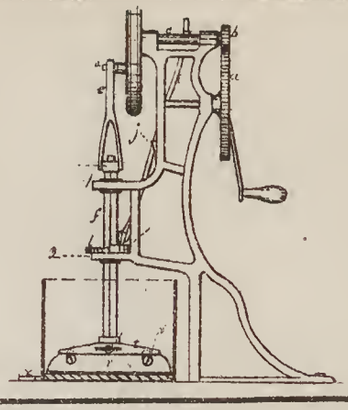
95,307, ARTEMAS BIGELOW.
PROCESS FOR UTILIZING THE SULPHUR FUMES FROM COPPER-ORES.



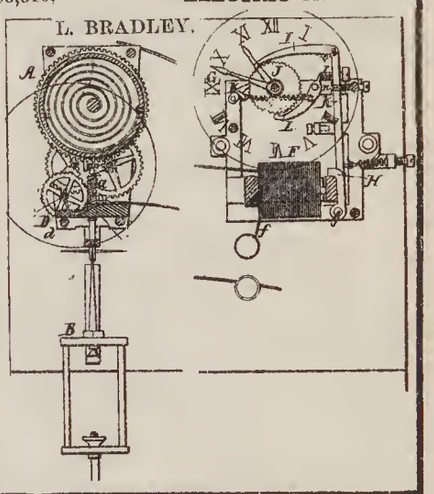
95,308, T. BRIGHAM BISHOP.
MEASURING-FAUCETS



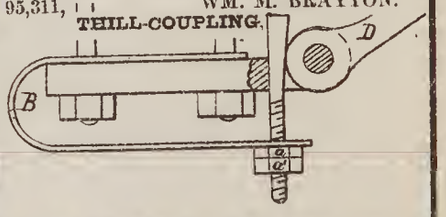
JOHN H. BLAKE. 95,309.
MEAT-CHOPPER



95,310. **ELECTRIC CLOCKS.**
L. BRADLEY.

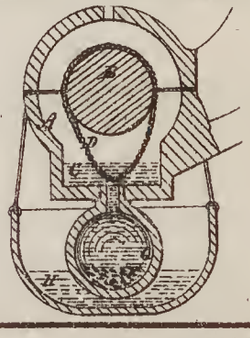


95,311, WM. M. BRAYTON.
THILL-COUPLING.

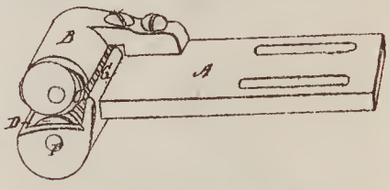


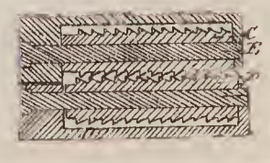
SOAP OR DETERGENT-COMPOUND.
95,312, EVERETTE R. BREED.

95,313, ADOLPHUS BROWN.
FELIX BROWN.
LUBRICATOR FOR JOURNAL-BOXES.

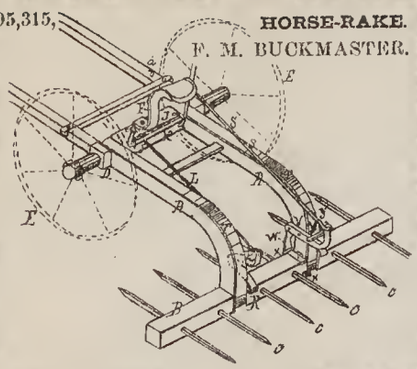


95,314, WM. HENRY BURNS.
ROLLER JAW-TEMPLE FOR LOOMS.

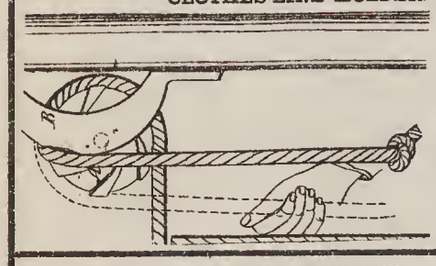




95,315, HORSE-RAKE.
F. M. BUCKMASTER.

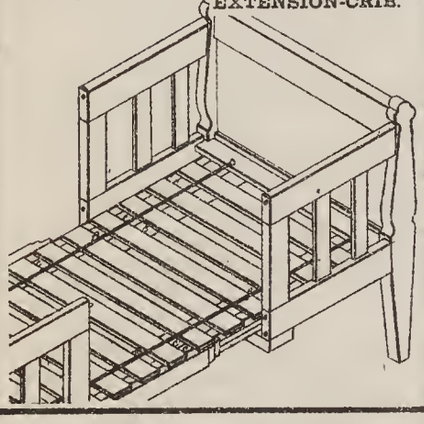


95,316, DANIEL BULL.
CLOTHES-LINE HOLDER.

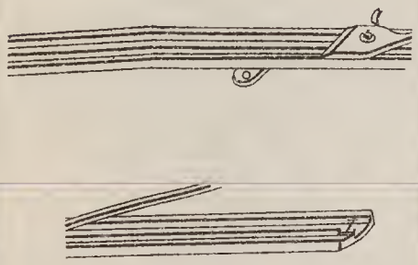


95,317, HUGH BURGESS.
EXTRACT OF HOPS.

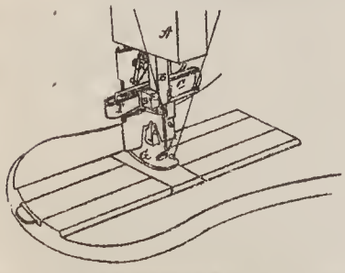
95,318, SANFORD S. BURR.
EXTENSION-CRIB.



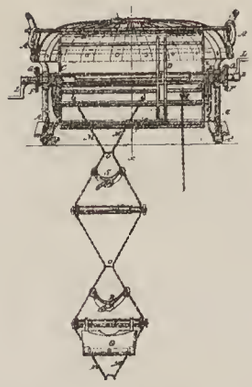
95,319, CORNELIUS L. CAMPBELL.
AXLE-SPINDLES TO SKEINS.
VEMENT IN DEVICE FOR FITTING



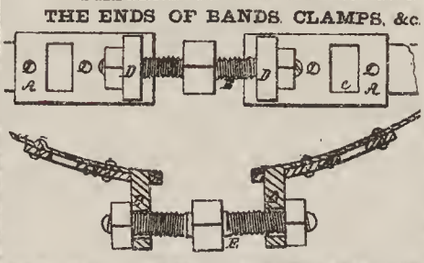
95,320, WM. CARPENTER.
BUTTON-HOLING ATTACHMENT
FOR SEWING-MACHINES.



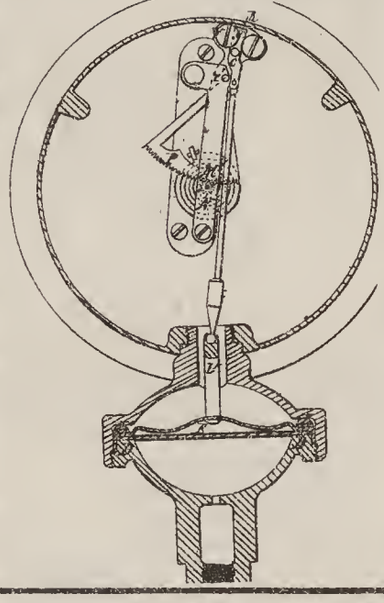
95,321, HUGH O. CARRIGAN.
PORTABLE FIRE-ESCAPE.



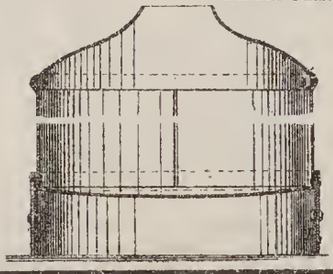
95,322, EDWIN CARTER.
FASTENINGS FOR ATTACHING
THE ENDS OF BANDS, CLAMPS, &c.



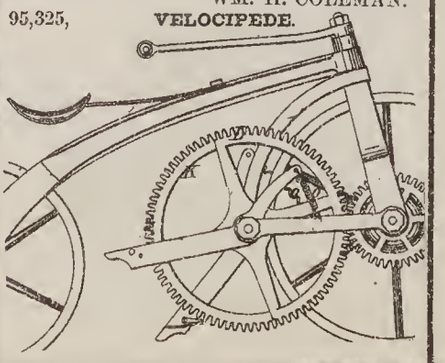
95,323, WILLIAM CHESLEY.
STEAM-GAUGES.



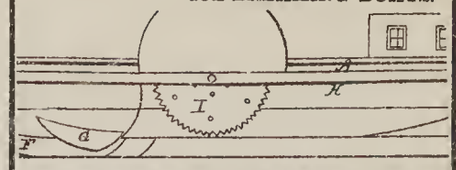
95,324, JOHN COCHRAN.
MILK-CAN.



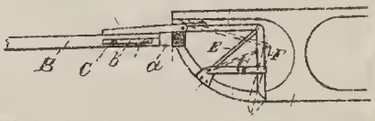
95,325, WM. H. COLEMAN.
VELOCIPEDE.



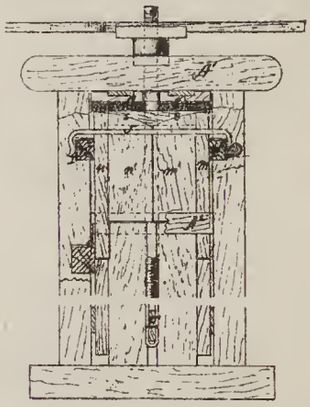
95,326, DANIEL COMPTON.
ICE-BREAKING BOATS.



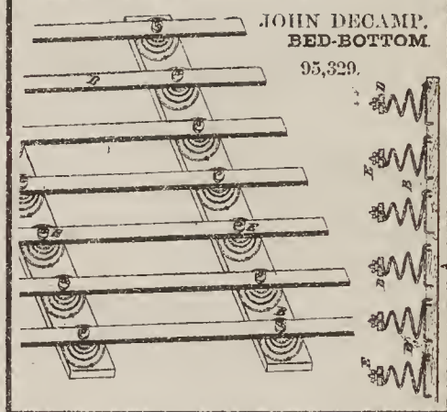
95,327, S. A. CUMMINS.
A. J. CUMMINS.
SLED-BRAKE.



95,328, JOSEPH K. DAVIS.
COTTON AND HAY-PRESSES.

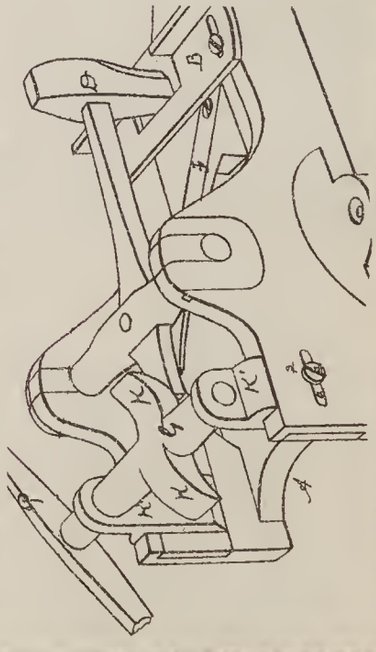


JOHN DECAMP.
BED-BOTTOM.
95,329.

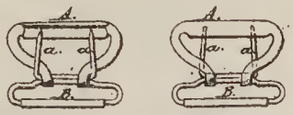


95,330, N. T. DRAKE, M. D.
MEDICAL COMPOUND.

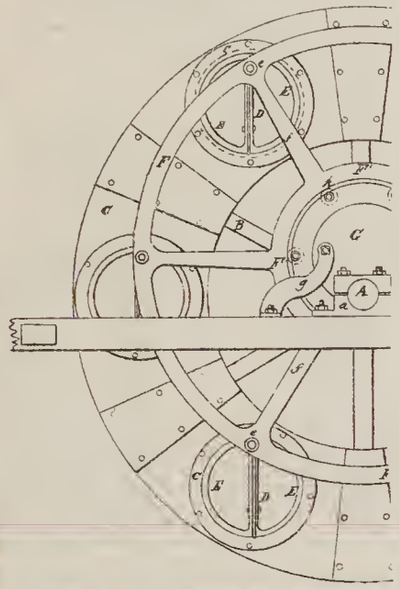
95,331, WILLIAM DUESLER.
TRIP-HAMMER SAW-SET.



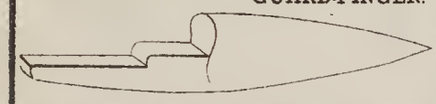
95,332, EDGAR F. EATON.
BUCKLE.



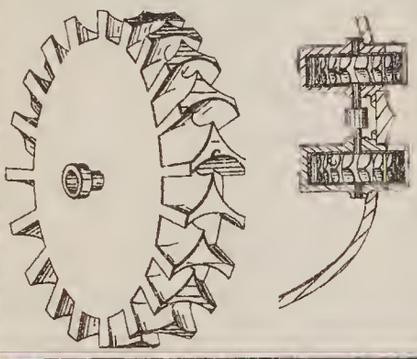
95,333. PRIMUS EMERSON.
FEATHERING PADDLE-WHEELS.



95,334, JEROME FASSLER.
BLANK FOR HARVESTER GUARD-FINGER.



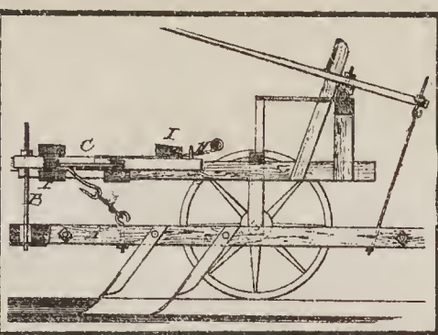
95,335, COLIN T. FINLAYSON.
PROPELLER-WHEELS.



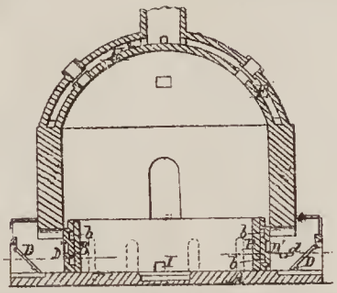
FERTILIZER-ATTACHMENT.
95,336, C. C. FOSTER.

95,337, GEORGE W. GOULDEN.
CLAMP.

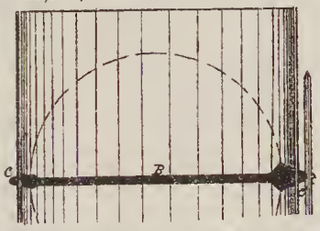
95.338. THOMAS J. HALL.
CULTIVATORS.



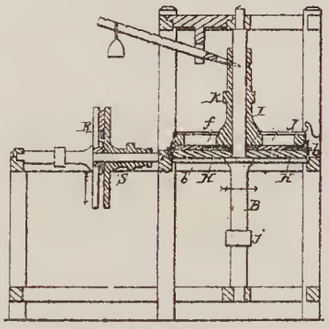
95,339, WILLIAM HALLAM.
BRICK-KILNS.



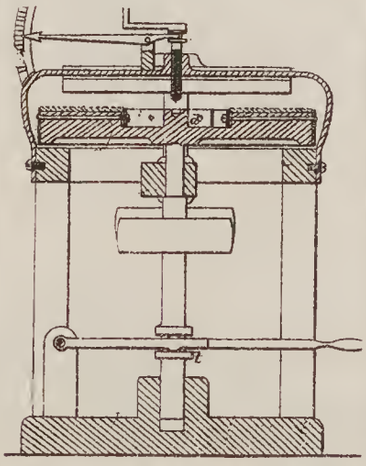
ROBT. HAM. 95,340, STOVE-PIPE DAMPER.



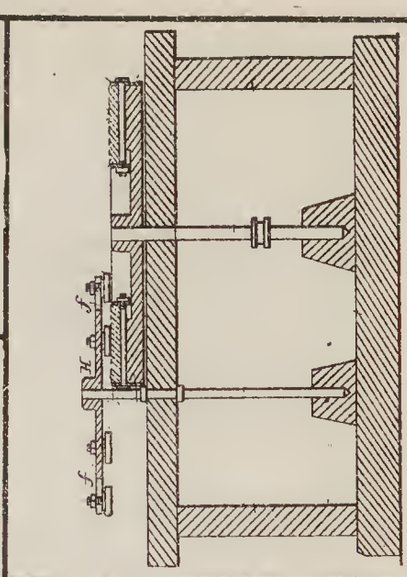
95,341, H. WM. HARPER.
MACHINE FOR GRINDING AND POLISHING SCHOOL-SLATES.



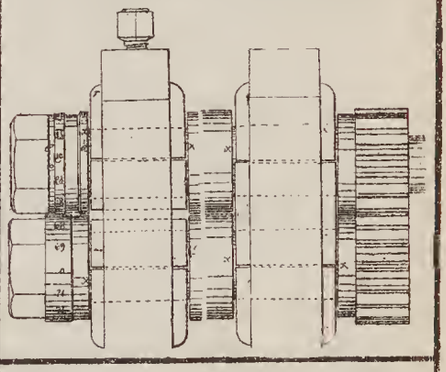
95,342, H. WM. HARPER.
MACHINE FOR GRINDING AND POLISHING SLATE.



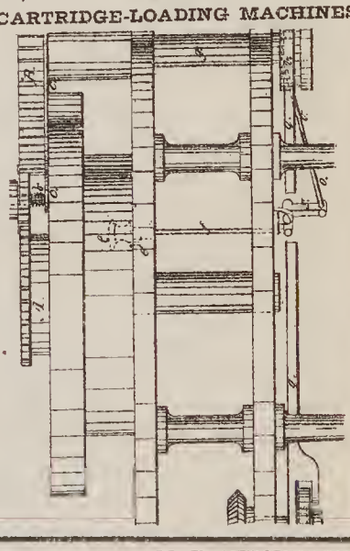
95,343, H. WM. HARPER.
GRINDING SLATE, STONE, MARBLE



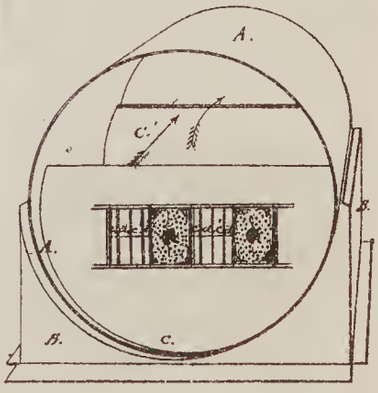
95,344. B. B. HILL.
MANUFACTURING TYPE-WHEELS.



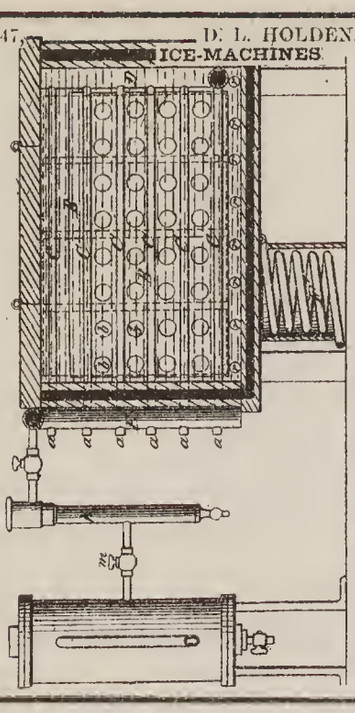
95,345, MARTIN V. B. HILL.
CARTRIDGE-LOADING MACHINES.



95,346, M. T. HITCHCOCK.
EDUCTION-VENTILATOR FOR RAILROAD-CARS.

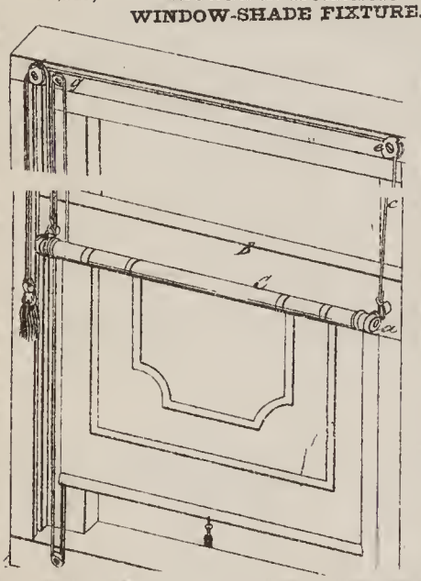


95,347, D. L. HOLDEN.
ICE-MACHINES.

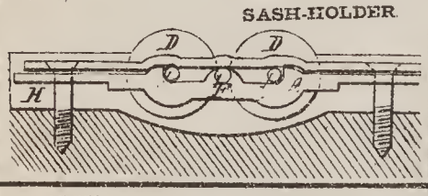


W. R. HOLLINGSWORTH.
95,348, HARROWS.

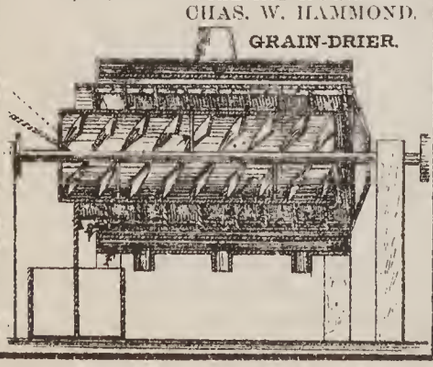
95,349, GEORGE B. HOLZACH.
WINDOW-SHADE FIXTURE.



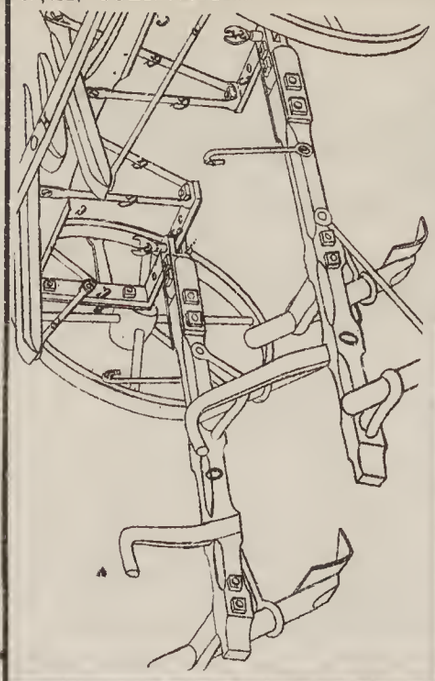
95,350, R. B. HUGUNIN.
SASH-HOLDER.



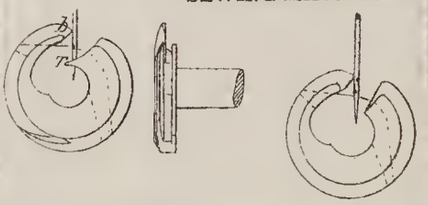
95,351, WILLIAM HULL.
CHAS. W. HAMMOND.
GRAIN-DRIER.



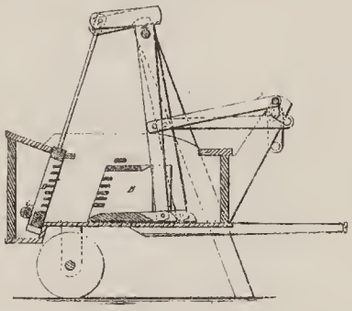
95,352, CULTIVATORS. ALMON HUNT.



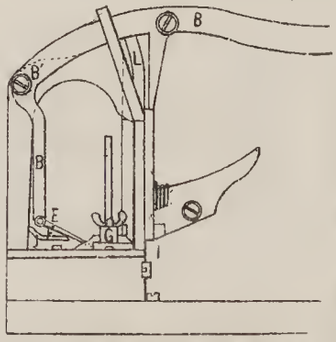
95,353, JAK. HUSNIK.
ROTATING HOOK FOR SEWING-MACHINES.



J. J. KENDALL. WASHING-MACHINE.
95,354,

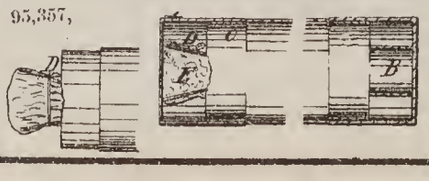


95,355, JEFFERSON KINDLEBERGER.
WILLIAM AUGUSTUS ARNOLD.
MACHINE FOR WIRING BLINDS.



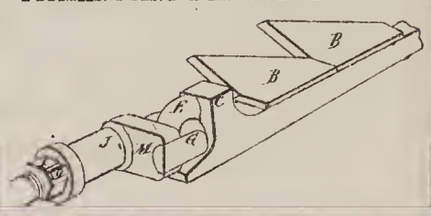
PHILIP KNEIPP.
95,356, ORNAMENTAL TRANSFERS.

CARL KÜNSTLER. BLACKING-FOUNT
95,357,

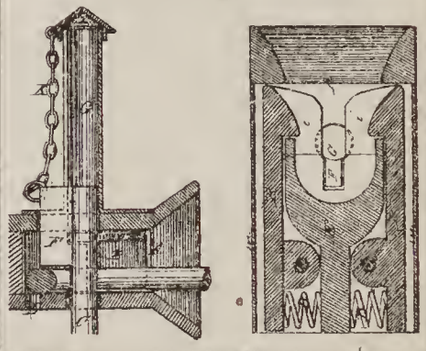


95,358, LOUIS LA BRECHE-VIGER.
MANUFACTURE OF CAST-STEEL.

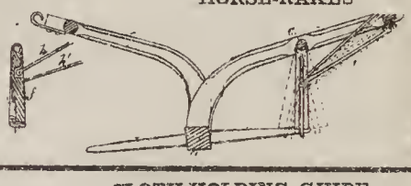
95,359, SALEM T. LAMB.
PITMAN-JOINT FOR HARVESTERS.



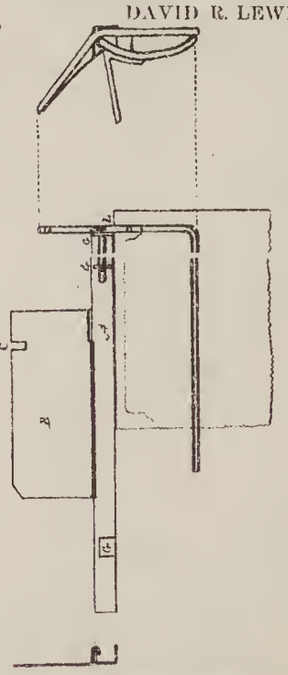
95,360, JOHN LARIMORE.
J. M. WILLIAMS.
RAILWAY-CAR COUPLING.



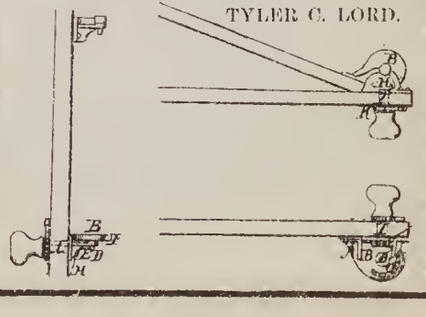
95,361, ANDREW S. LAZIER.
HORSE-RAKES.



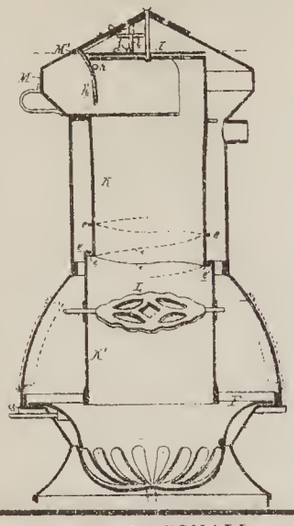
CLOTH-HOLDING GUIDE FOR SEWING-MACHINES.
95,362, DAVID R. LEWIS.



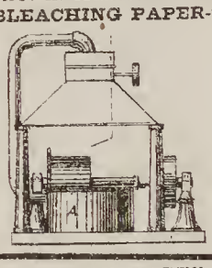
95,363, HINGE FOR BLINDS.
TYLER C. LORD.



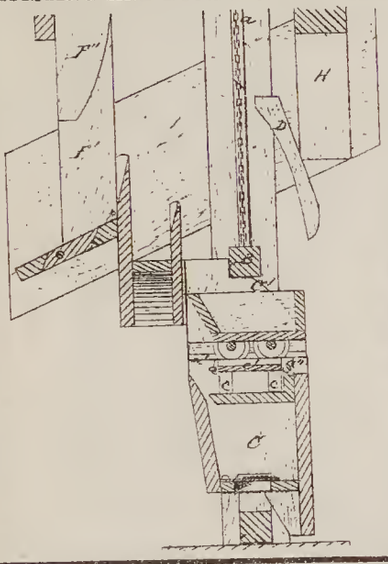
95,364, HENRY C. MARCH. **BASE-BURNING STOVE.**



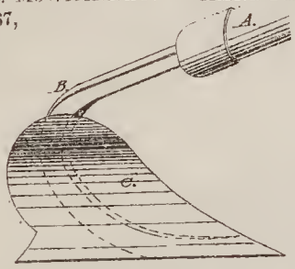
95,365, GEO. E. MARSHALL. **BLEACHING PAPER-STOCK.**



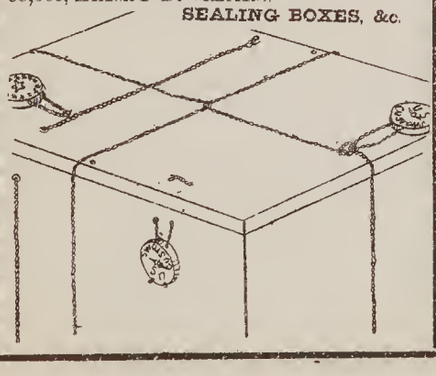
95,366, GEORGE MARTZ. **HOISTING AND DUMPING-APPARATUS.**



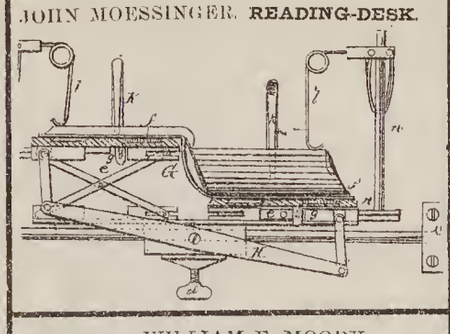
L. R. McWHINNEY. **HAND-PLOWS.** 95,367,



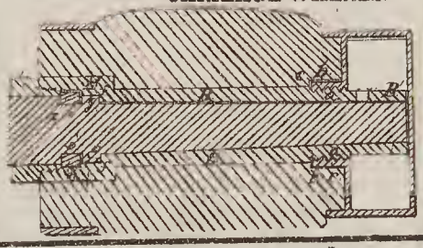
95,368, HENRY D. MEARS. **SEALING BOXES, &c.**



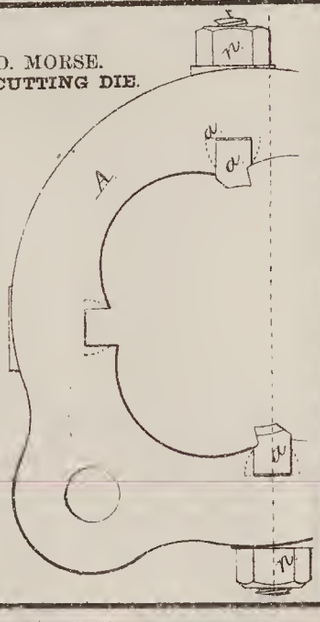
95,369, JOHN MOESSINGER. **READING-DESK.**



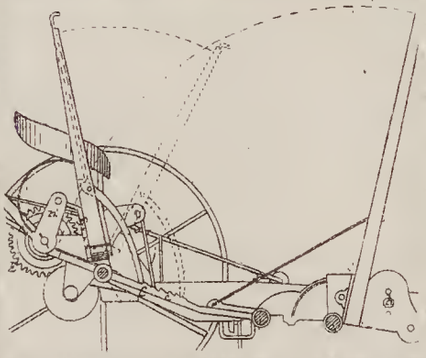
95,370, WILLIAM F. MOODY. **CARRIAGE-WHEELS.**



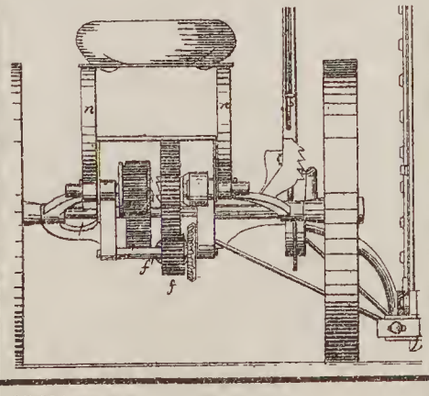
95,371, JAMES O. MORSE. **SCREW-CUTTING DIE.**



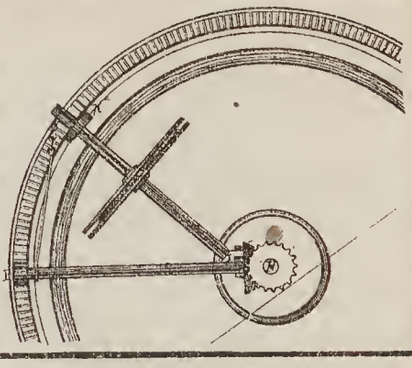
95,372. F. NISHWITZ. **HARVESTERS.**



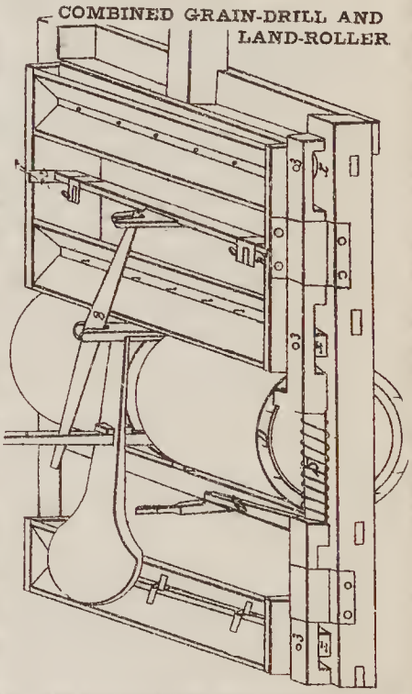
95,373, F. NISHWITZ. **HARVESTERS.**



95,374, G. E. NOYES. **CLAY-TEMPERING MACHINES**



95,375, HENRY D. PALMER. **COMBINED GRAIN-DRILL AND LAND-ROLLER.**

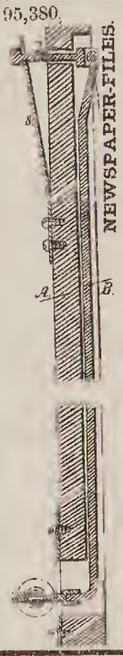


JOHN POOL. 95,376, **COMPOUND FOR THE CURE OF CHOLERA-MORBUS.**

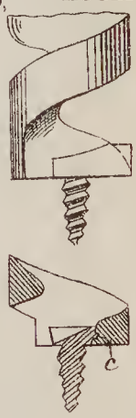
95,377, W. P. PUGH, M. D. **MEDICATED SOAP.**

95,378, EVANDER W. RANNEY. **COMPOSITION FOR ROOFING, PAVEMENTS, &c.**

95,380. JOHN ROBSON. **NEWSPAPER-FILES.**

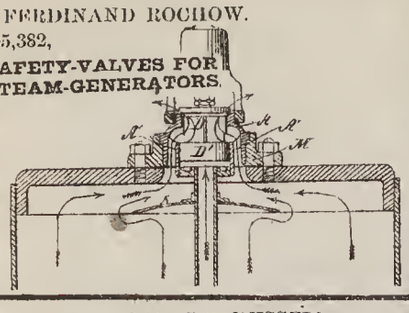


T. M. RICHARDSON. 95,379, **AUGER.**

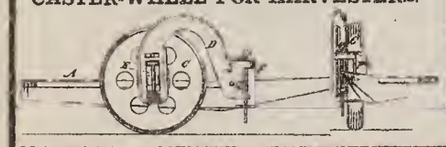


95,381. EDWD. P. ROCHE. **CHAFING-IRON FOR WAGONS.**

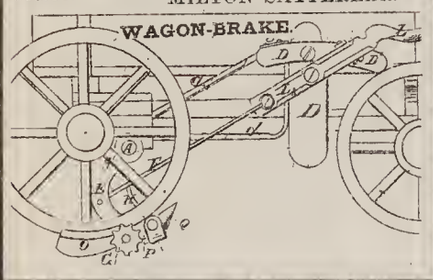
FERDINAND ROCHOW.
95,382,
SAFETY-VALVES FOR STEAM-GENERATORS.



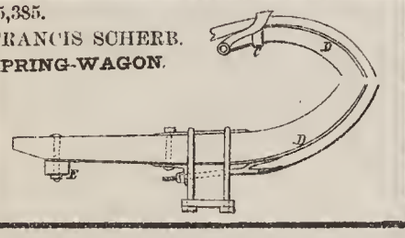
95,383. ISAAC S. RUSSELL. HENRY R. RUSSELL.
CASTER-WHEEL FOR HARVESTERS.



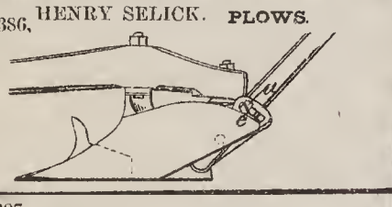
95,384. MILTON SATTERLEE.
WAGON-BRAKE.



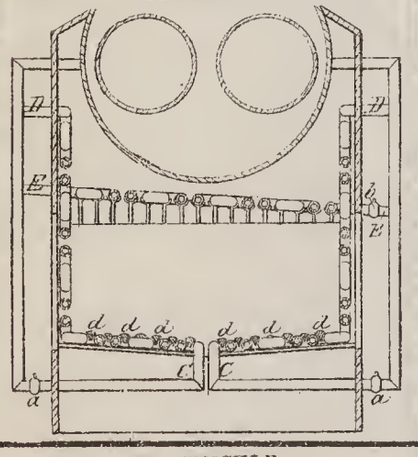
95,385.
FRANCIS SCHERB.
SPRING-WAGON.



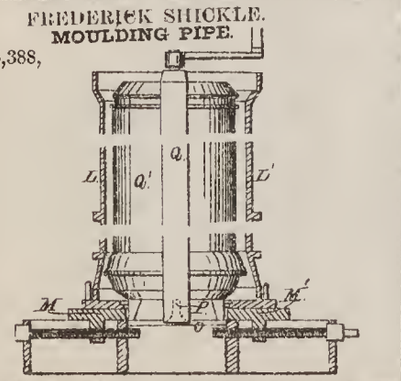
95,386, HENRY SELICK. **PLOWS.**



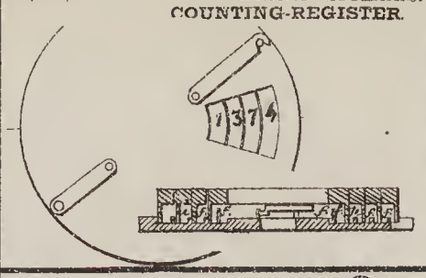
95,387,
N. SHAW. **STEAM-GENERATORS.**



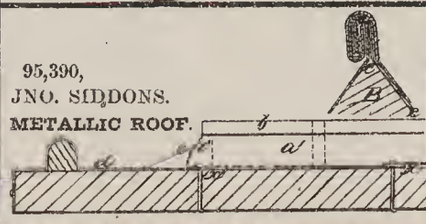
FREDERICK SHICKLE.
MOULDING PIPE.
95,388,



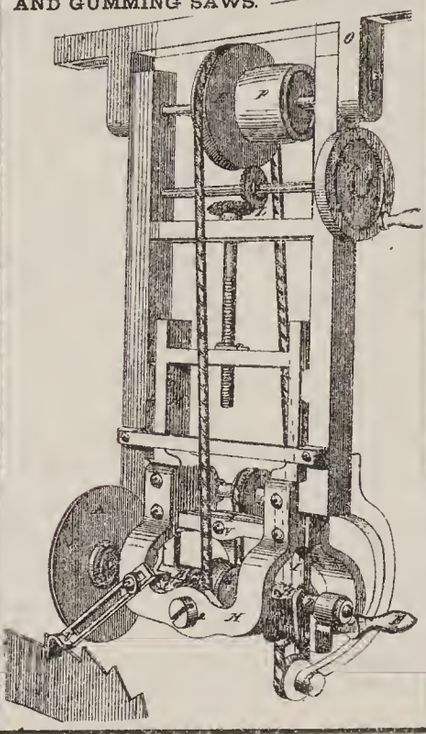
95,389, GERARD SICKELS.
COUNTING-REGISTER.



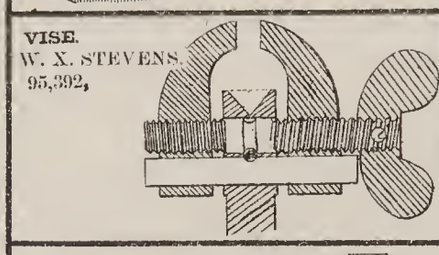
95,390,
JNO. SIDDONS.
METALLIC ROOF.



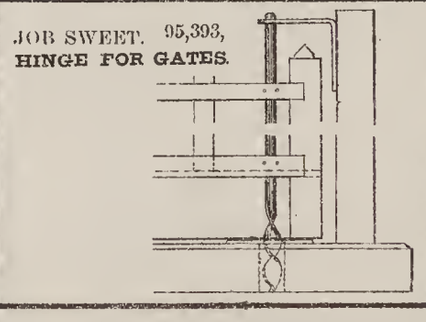
95,391, WM. S. SPRATT.
APPARATUS FOR SHARPENING AND GUMMING SAWS.



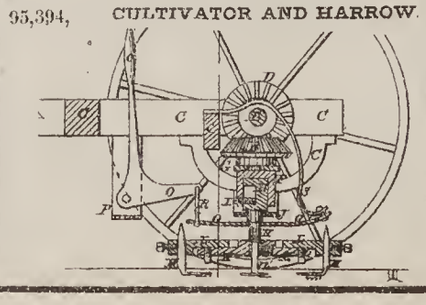
VISE.
W. X. STEVENS.
95,392,



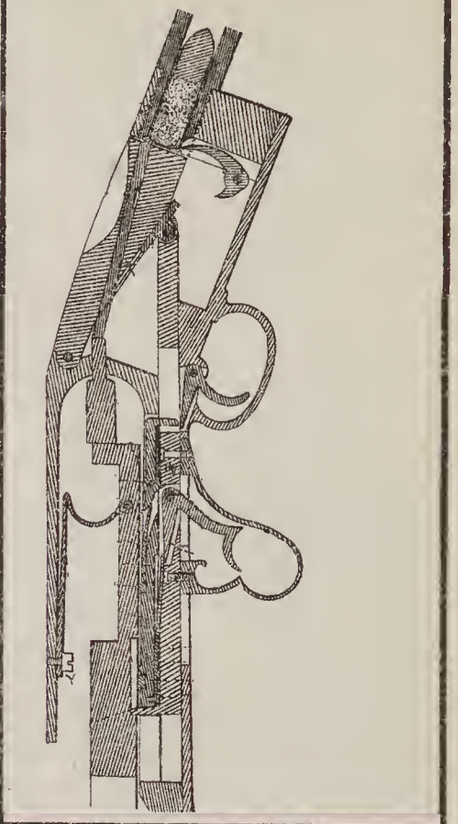
JOB SWEET. 95,393,
HINGE FOR GATES.



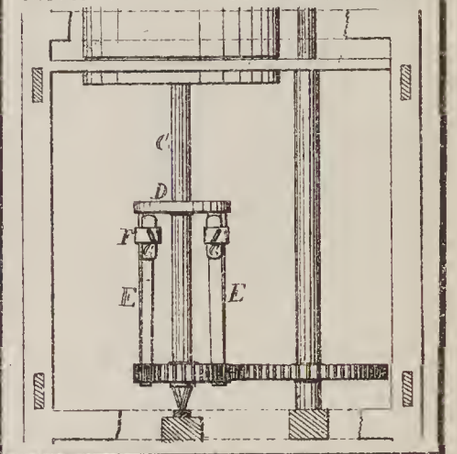
HENRY T. TAPLIN. **COMBINED ROTARY CULTIVATOR AND HARROW.**
95,394,



95,395, A. L. VARNEY.
BREECH-LOADING FIRE-ARMS.



95,396,
DAVID WEIMER. **GRINDING-MILLS.**



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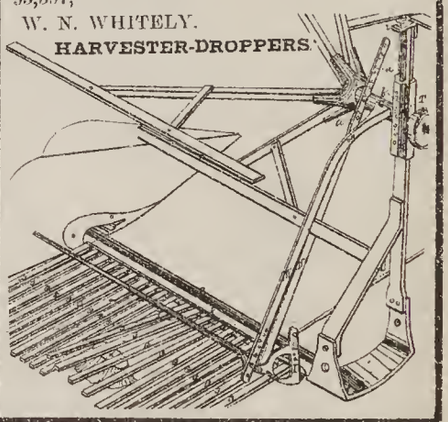
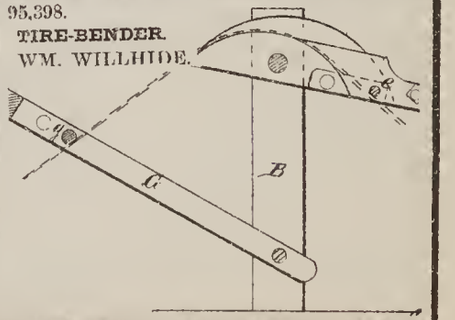
W. N. WHITELY.
HARVESTER-DROPPERS.



95,398.
TIRE-BENDER.
WM. WILLHIDE.



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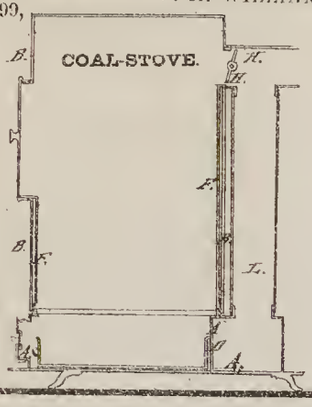
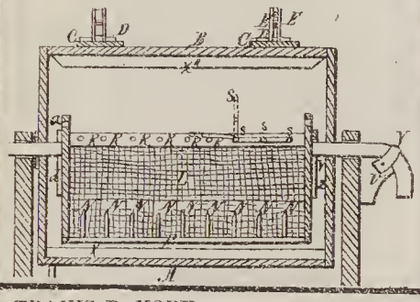
COAL-STOVE.



95,400, DISH-WASHING MACHINE.
L. R. WITHERELL.



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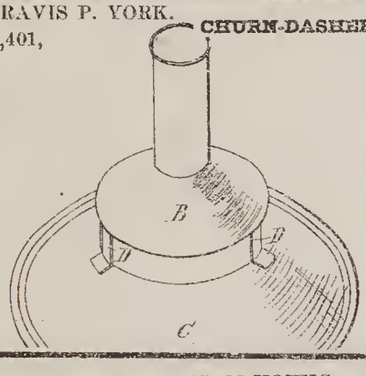
95,401, CHURN-DASHERS.



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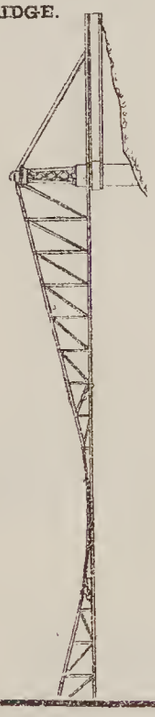
95,402, BRIDGE.

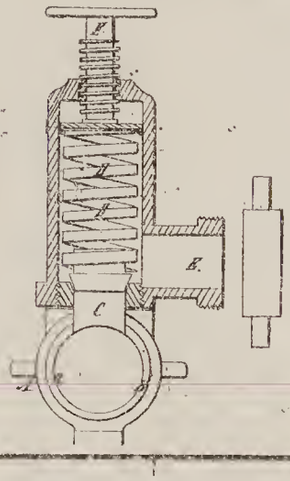


95,403, JAMES GOULD.
PAINT-COMPOUND.

95,404 CANCELED.

3,647, AMERICAN PRINT-WORKS,
RICHARD BORDEN,
PRINTING CERTAIN TEXTILE FABRICS AND YARNS.

3,648, CHAS. E. BLAKE.
PUMP-DEVICES FOR STEAM AND OTHER ENGINERY.



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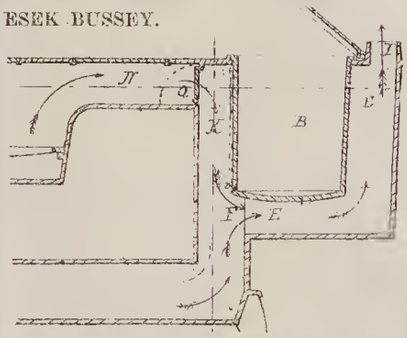
COOKING-STOVES.
ESEK BUSSEY.



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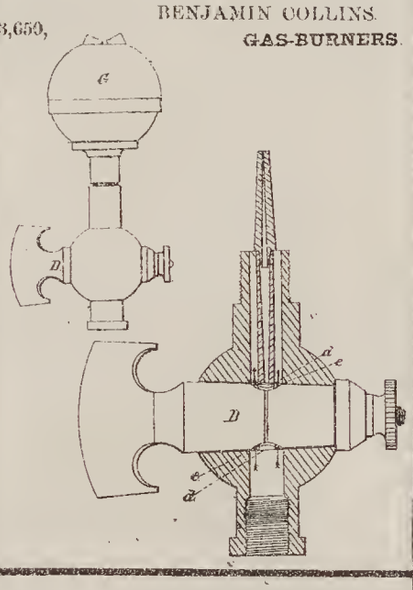

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3,651, HAMILTON DISSTON.
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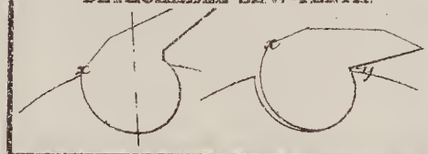
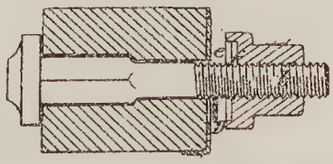
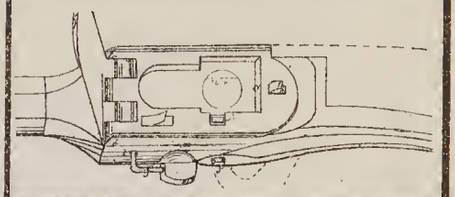


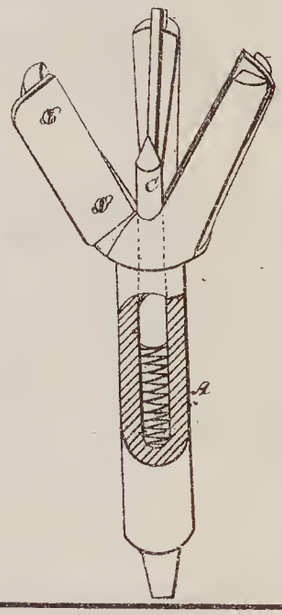
D. ELLIOT.
E. SEELY.
3,652, WASHER FOR LOCK-NUTS.



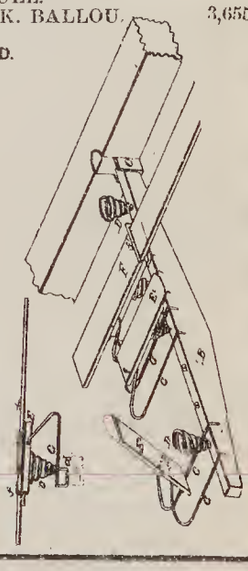
3,653, ALFRED B. ELY
BREECH-LOADING FIRE-ARMS



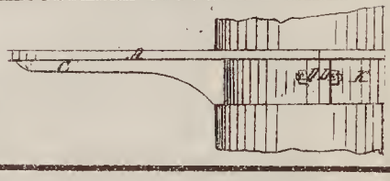
3,654, C. F. HALL.
C. S. HALL.
MACHINE FOR REFITTING VALVES.



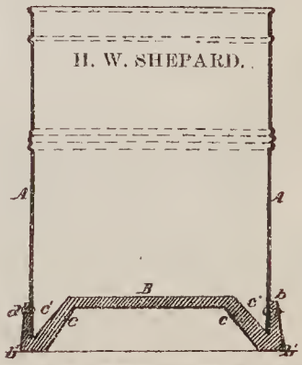
DAVID MANUEL.
FREDERICK K. BALLOU. 3,655,
BEDSTEAD.



3,656, O. B. OLMSTED.
ADJUSTABLE STOVE-PIPE SHELF.



3,657, MILK-CANS.
H. W. SHEPARD.



ILLUSTRATIONS OF PATENTS

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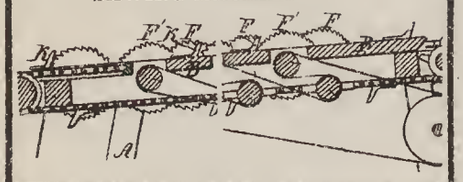
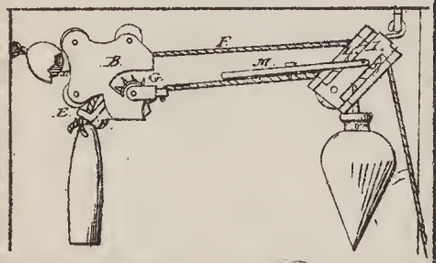
OCT. 5, 1869.

95,406, W. A. ALLEN.
SAWING-MACHINE.

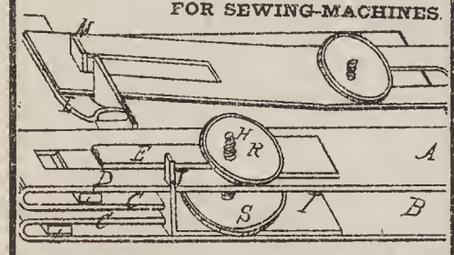


95,407, JOSEPH AMBROSE.
MEDICAL COMPOUND OR CORDIAL.

95,408, ISAAC ANDERSON.
HAY-LOADER.



95,409, E. F. ANGELL. **BINDING-GUIDE FOR SEWING-MACHINES.**



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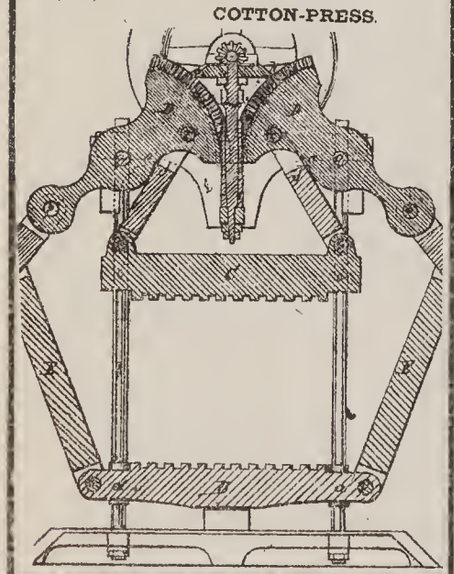
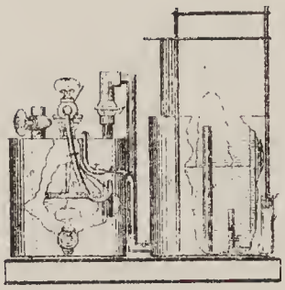
EDWIN C. PERRY.
HAMES-FASTENER

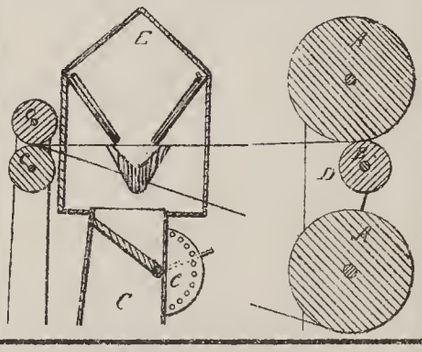
95,411, AUGUSTINE BALDWIN.
COTTON-PRESS.



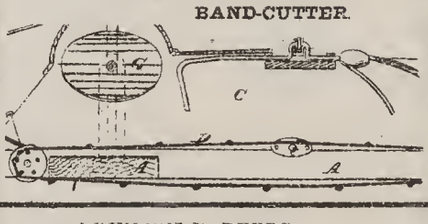
95,412, ARTHUR BARBARIN.
APPARATUS FOR CARBURETTING AIR AND GAS



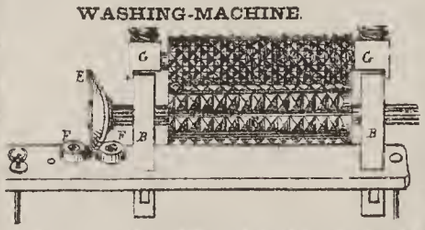
95,413, SOLOMON BARBER.
DEVICE FOR STEAMING ROVINGS.



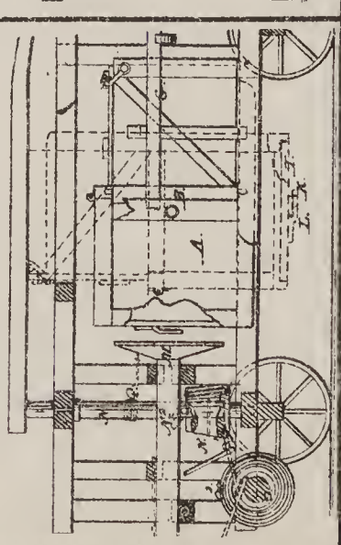
95,414, WESLEY C. BARR.
EDGAR J. HUNKINS.
BAND-CUTTER.



95,415, BRUNSON B. BEERS
NATHAN COUCH.
WASHING-MACHINE.



95,416, JOHN BERKELEY.
HAY AND COTTON-PRESSES.



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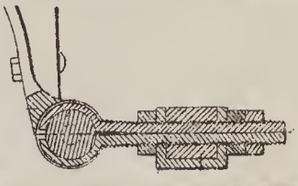
SHAFT-COUPLINGS FOR CARRIAGES.



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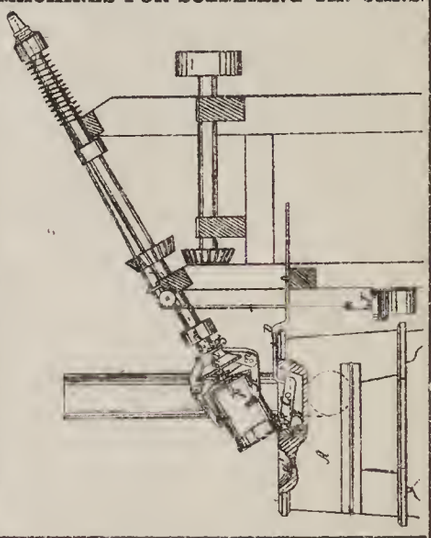
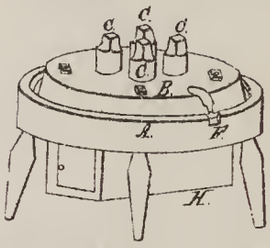
MACHINES FOR SOLDERING TIN CANS.

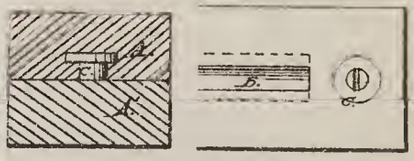


95,419, EDWARD BRADY. **PURIFYING IRON AND STEEL, OR OTHER METAL.**

95,420, J. H. BRITTON.
RIM-PRESS AND TIRE-HEATER.



95,421, AARON BROWER.
TABLE-SLIDE.



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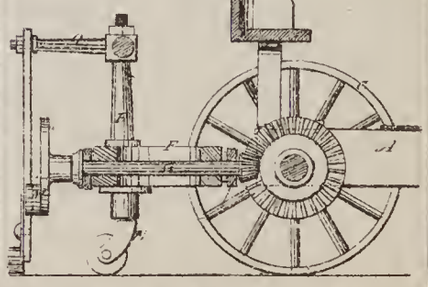
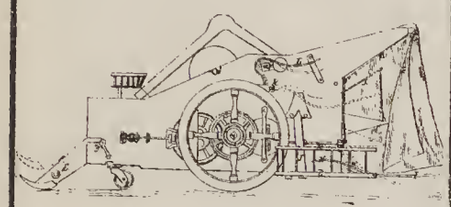
COTTON-THINNING MACHINE.



95,423. DUNCAN CAMPBELL.
THRESHING-MACHINES.



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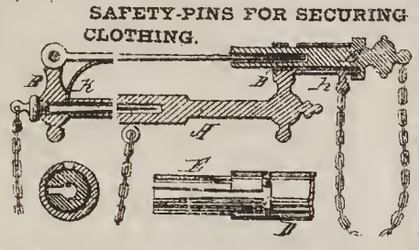
SAFETY-PINS FOR SECURING CLOTHING.



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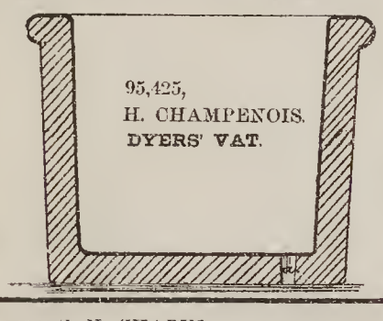
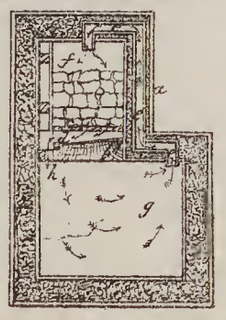
H. CHAMPENOIS.
DYERS' VAT.



95,426, S. N. CHAPIN. ATTACHMENT FOR WINDOW-SASH CORDS.

95,427, D. S. CHAPMAN.
STUMP-EXTRACTORS.

95,428,
A. J. CHASE.
REFRIGERATOR.



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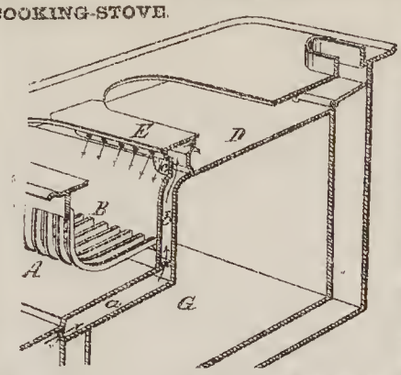
COOKING-STOVE.



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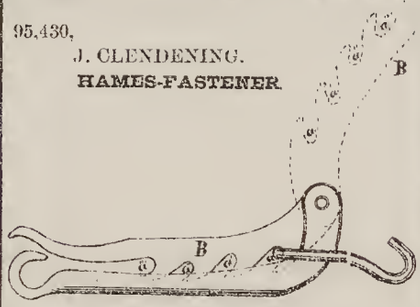
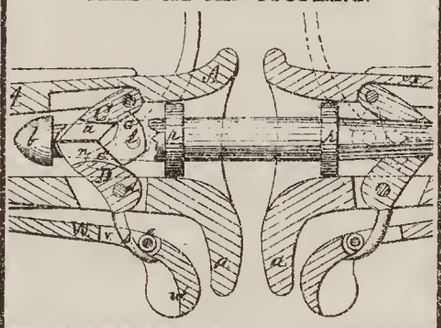
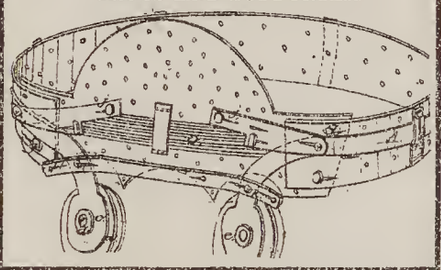
J. CLENDENING.
HAMES-FASTENER.



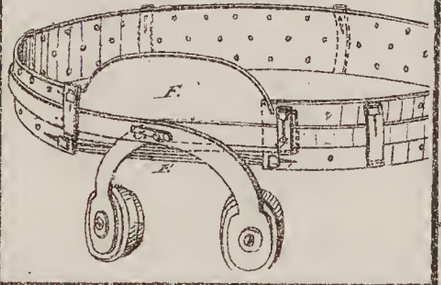
95,431. MICHAEL CONNELLY.
RAILWAY-CAR COUPLING.



95,432, DAVID J. COOPER.
TRUSS AND SUPPORTER.



95,433, DAVID J. COOPER,
HERNIA-TRUSS.



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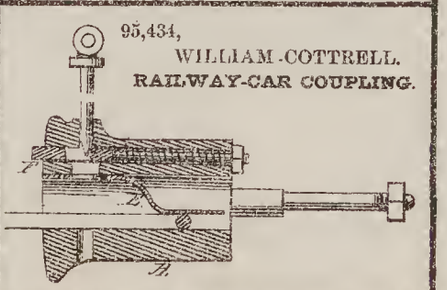
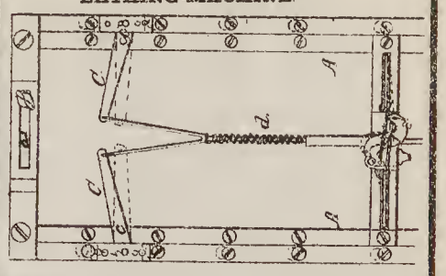
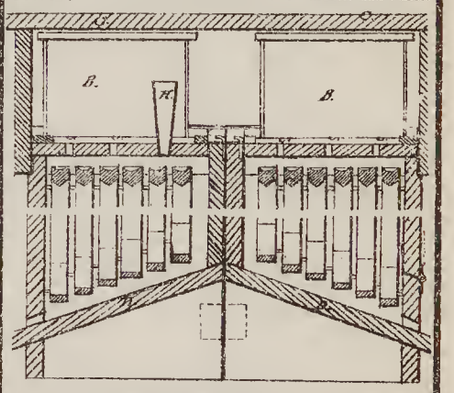
WILLIAM COTTRELL.
RAILWAY-CAR COUPLING.



95,435. GEORGE N. CREAMER.
LATHING-MACHINE.



95,436, L. H. CRITCHFIELD. BEE-HIVES.



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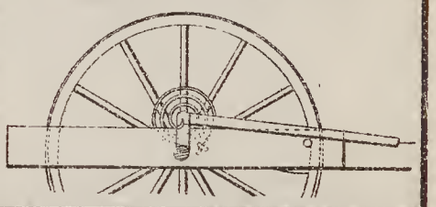
SPRING FOR GANG-PLOWS.



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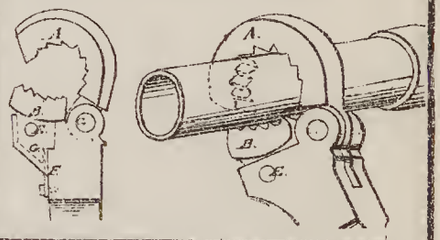

WINFIELD DENTON.
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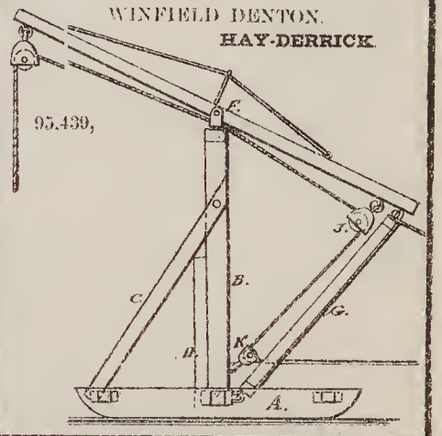
95,439,



95,440, JOSEPH DIFFENDAL.
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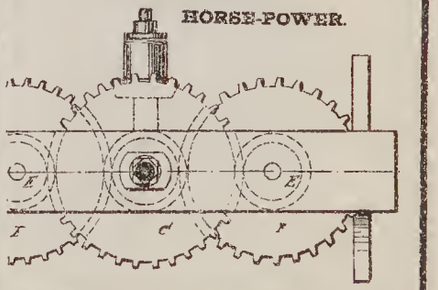

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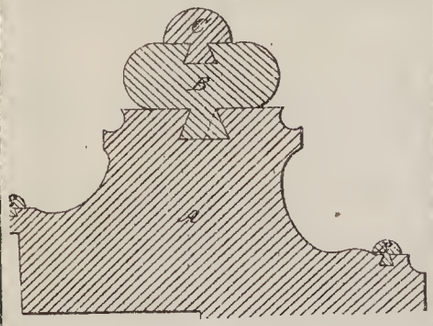
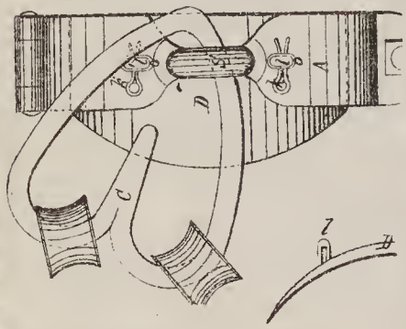
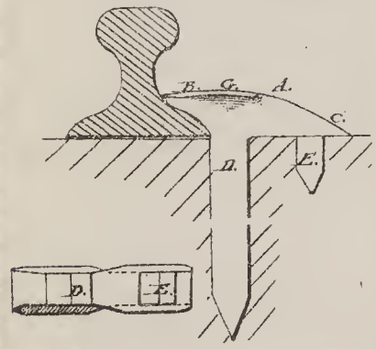
EDWARD RICE.
METHOD OF FORMING MOULDINGS.



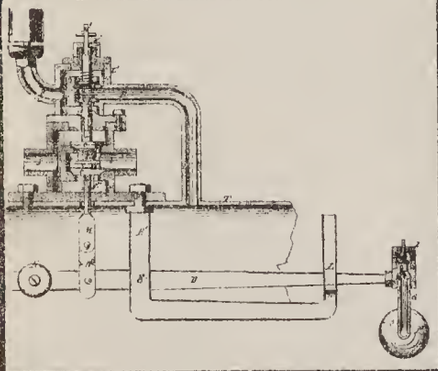
95,442, DAVID DRYBURGH.
BANDS FOR BOOMS AND GAFFS.



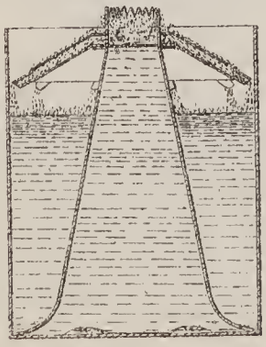
95,443, P. J. DWYER. **RAILROAD-SPIKE.**



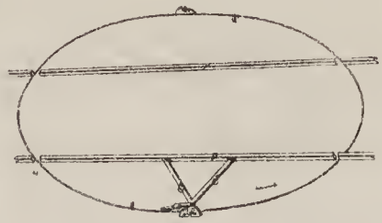
95,444, JAMES WILLIAM EBERT.
ELI C. McCLOY.
BOILER-FEEDER ALARM-DEVICE.



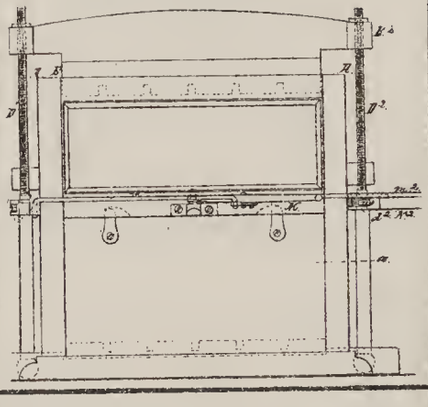
95,445, ALBERT ECKSTEIN.
APPARATUS FOR EVAPORATING AND DECOMPOSING LIQUIDS.



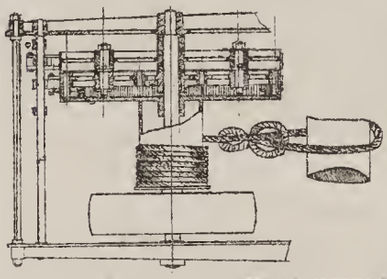
95,446, L. W. EMMART.
E. D. GRIFFITH. **TURN-TABLE.**



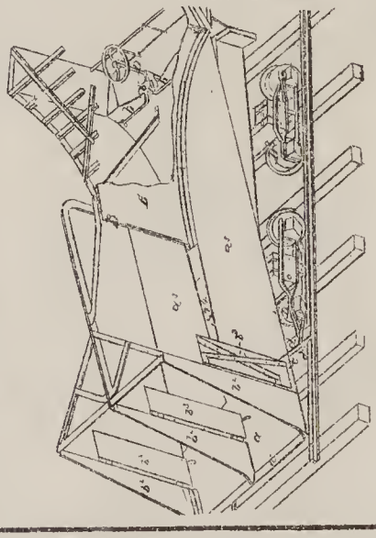
95,447, CHAS. J. EMMETT.
BALING-PRESSES.



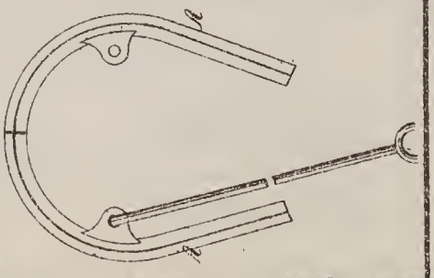
95,448, WILLIAM EPPELSHEIMER.
HOISTING-MACHINES.



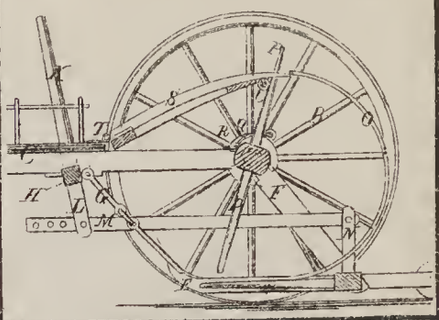
95,449, CHARLES L. ERICZON.
SNOW-PLOW.



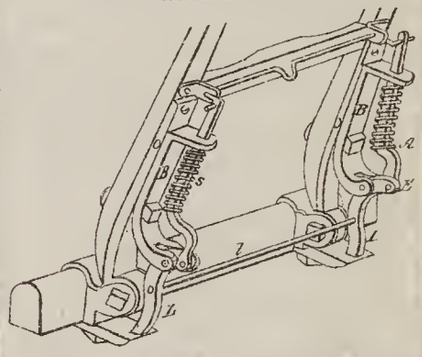
95,450, MORGAN Z. EVANS. **FIXING PUDDLING AND BOILING-FURNACES.**



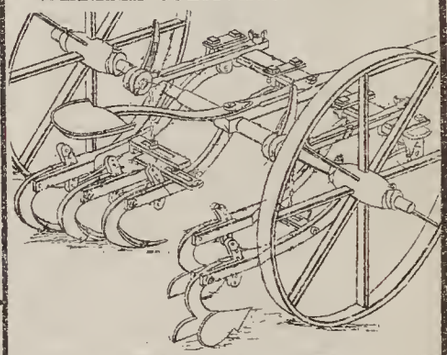
95,451. NEWTON FARLOW.
JOHN A. HAM.
HAY-RAKERS AND LOADERS.



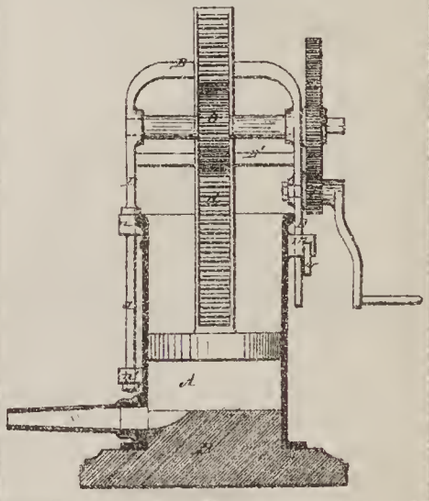
95,452, RUBIN FINK.
REUBEN DAVELER.
DEVICE FOR SUPPORTING THE SHAFTS OF VEHICLES.



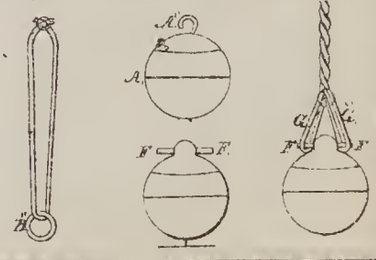
95,453, SAML. FISHER.
WHEELED CULTIVATOR AND PLOW.



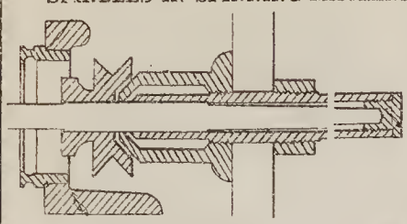
95,454, CHARLES FORSCHNER.
SAUSAGE-STUFFER.



95,455, HENRY FOULKES. **TOY TOP.**

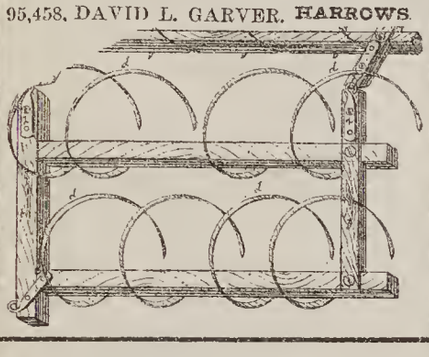


95,456. JIM B. FULLER. **BEARINGS FOR SPINDLES IN SPINNING-MACHINES.**

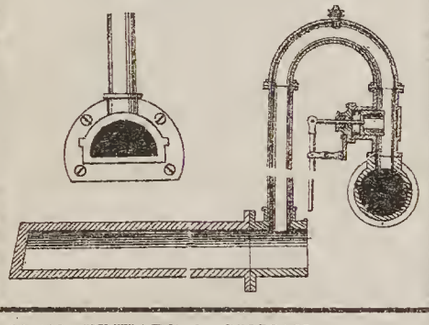


95,457. J. W. GARDNER. **ATTACHING HANDLES TO CUTLERY.**

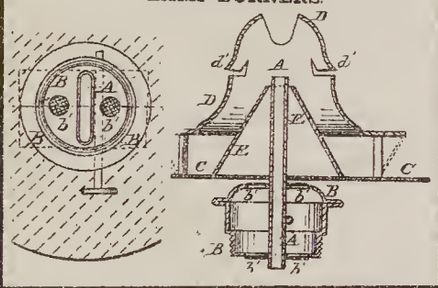
95,458. DAVID L. GARVER. **HARROWS.**



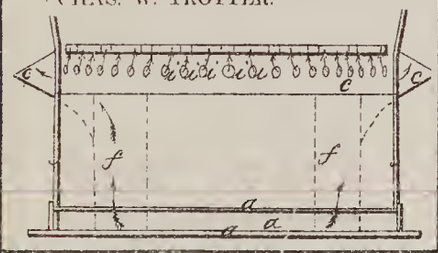
95,459. WILLIAM GIBSON. **MANUFACTURE OF COAL-GAS.**



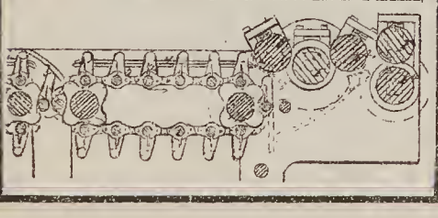
95,460. EDWARD L. GILMAN. **LAMP-BURNERS.**



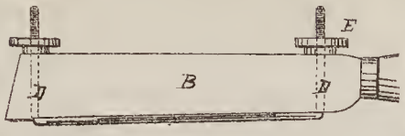
95,461. **HOT-AIR FURNACES.** BARTHOLOMEW GOMMENGINGER. CHAS. W. TROTTER.



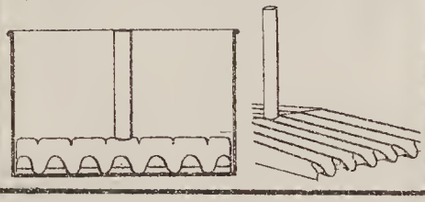
95,462. JOHN GOOD. **MACHINES FOR DRAWING FLAX.**



95,463. E. A. GOODES. **KNIFE-GUARD.**

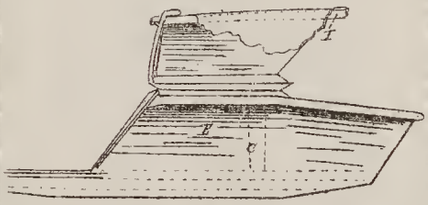


95,464. S. A. GOODWIN. **WASH-BOILER.**

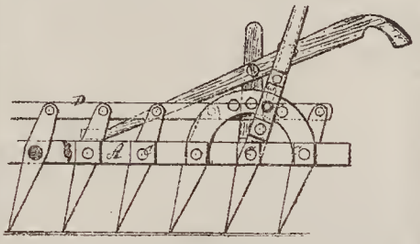


95,465. CHARLES GRAEBE. **PROCESS OF PREPARING ALIZARINE.**

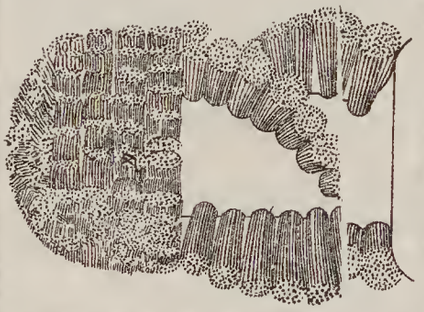
95,466. SIMON P. GRAHAM. **CARRIAGE-SEATS.**



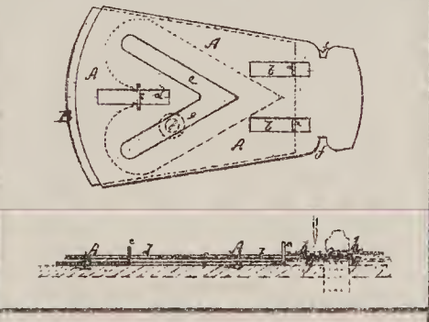
95,467. P. S. GRAVES. P. B. PARCELL. **HARROWS.**



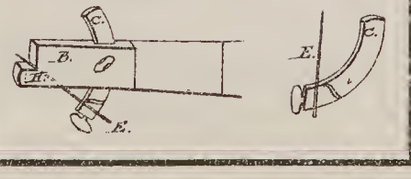
95,468. J. TYNDALE GREENFIELD. **CLEANING-BRUSHES FOR ORDNANCE.**



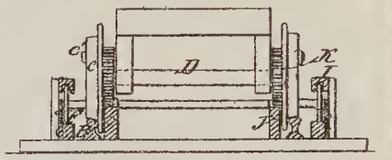
95,469. L. H. GUNNERMAN. **RUFFLING-ATTACHMENT FOR SEWING-MACHINES.**



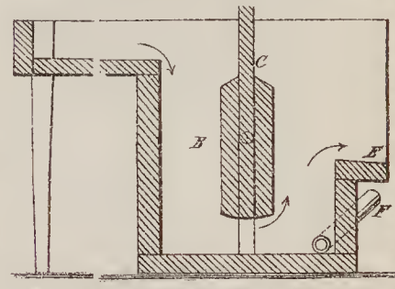
95,470. M. E. HALL. **SHOE-KNIFE.**



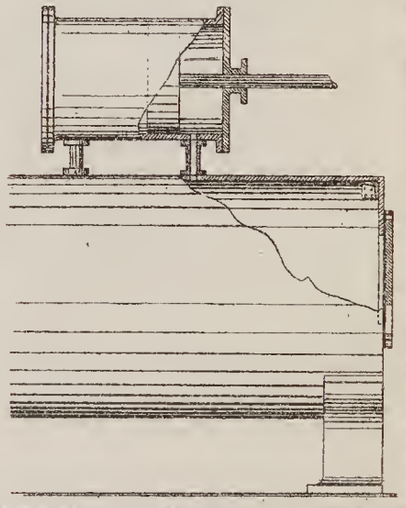
95,471. DAVID HARRISON. **RAILWAY.**



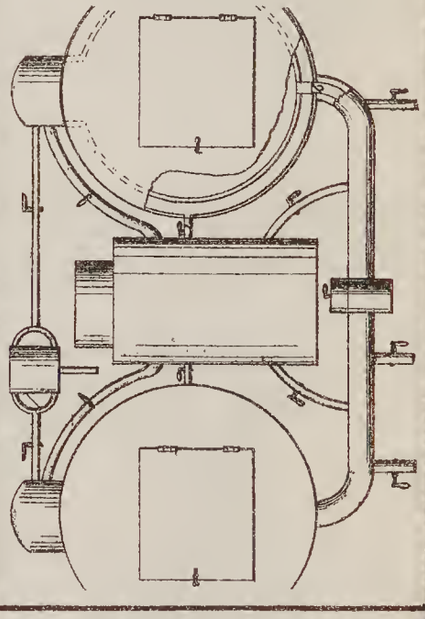
95,472. DANIEL FRANKLIN HAWKES. **APPARATUS FOR SEPARATING GOLD FROM SAND.**



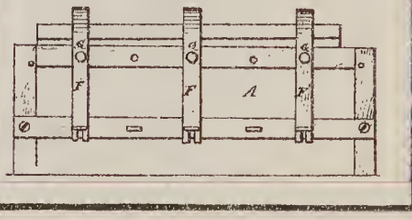
95,473. THEO. W. HEINEMANN. **PROCESS OF SEASONING WOOD.**



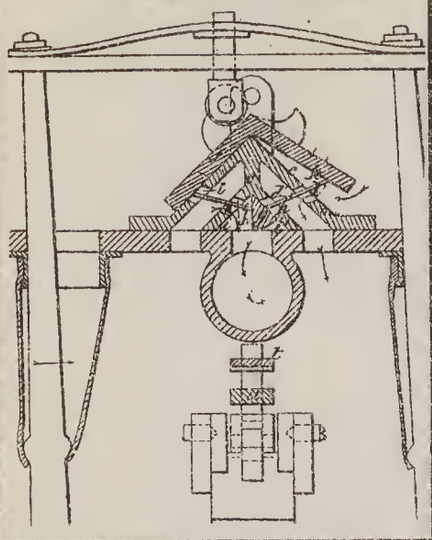
95,474. THEO. W. HEINEMANN. **PROCESS AND APPARATUS FOR PRESERVING WOOD.**



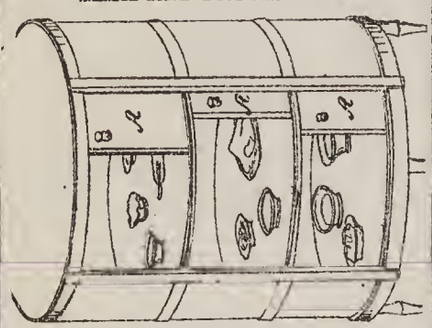
95,475. ALEXANDER W. HENDRICK. **PRESS FOR MAKING COFFIN-TOPS.**



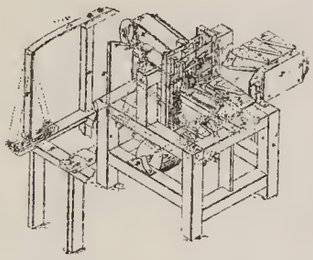
95,476, EDMUND H. HEWINS.
VALVE-DEVICES FOR STEAM AND OTHER ENGINERY.



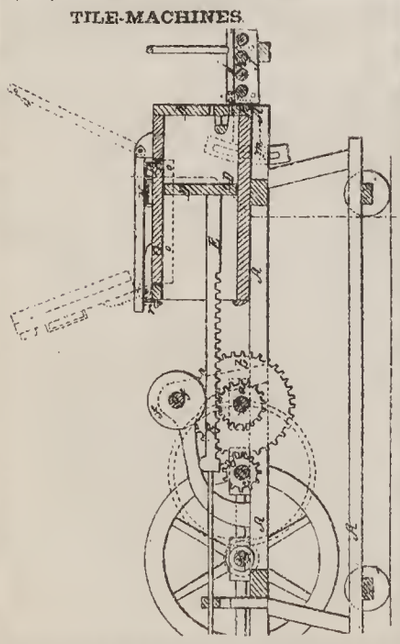
95,477, WILLIAM HINMAN.
MILK AND PROVISION-SAFE.



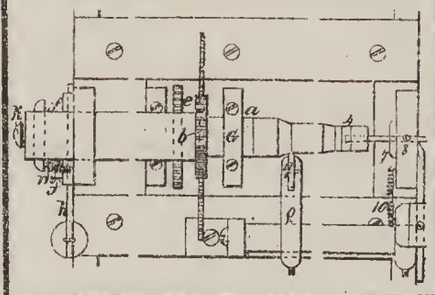
95,478, JOHN C. HINTZ.
CIGAR-MACHINES.



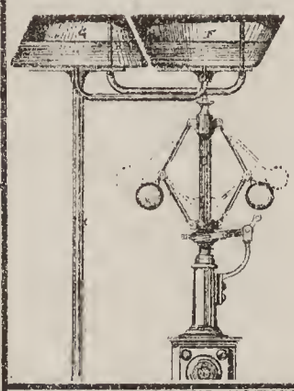
95,479, GEO. JACKSON.
TILE-MACHINES.



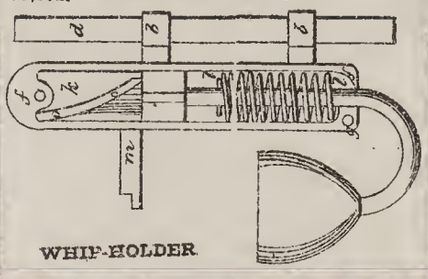
95,480, CLARK JILLSON.
MACHINE FOR CUTTING TAPERS.



95,481, EMIL HERMANN NACKE.
GOVERNOR FOR STEAM AND OTHER ENGINERY.

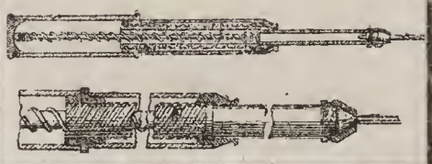


95,482, ALBERT W. JOHNSON.

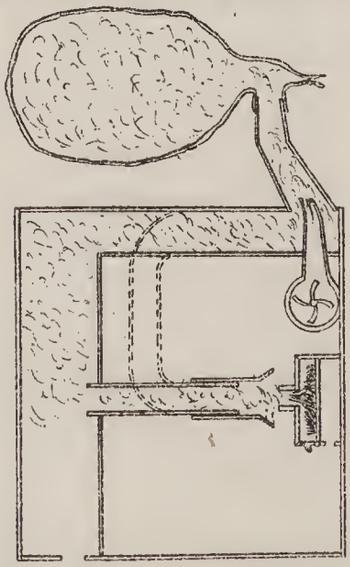


WHIP-HOLDER.

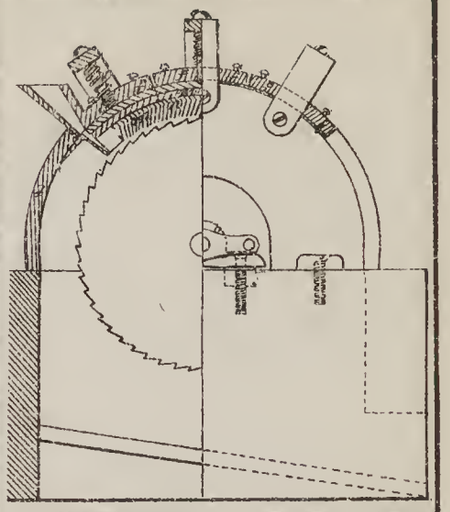
95,483, WM. J. JOHNSON.
GEORGE TAINTER.
BORING-TOOL.



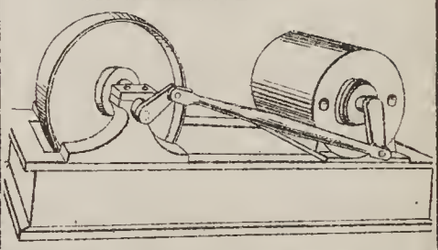
95,484, RICHARD JONES.
THE MANUFACTURE OF WHITE OXIDE OF ZINC.



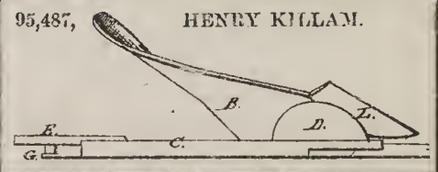
95,485, CHARLES KENISTON.
J. H. SAWYER.
HULLING-MACHINE.



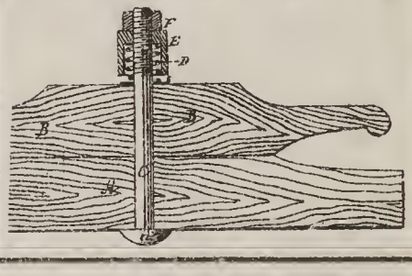
95,486, ALDEN KILBY.
STEAM-ENGINE.



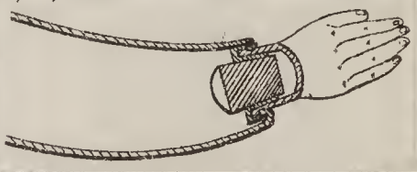
95,487, HENRY KILLAM.



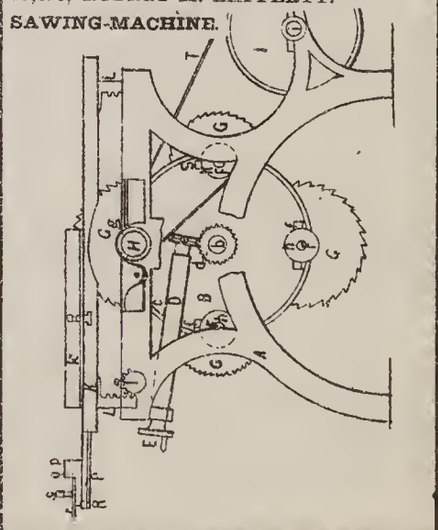
95,488, J. W. KINGSBURY. **PLOWS.**
CARRIAGE-AXLE CONNECTION.



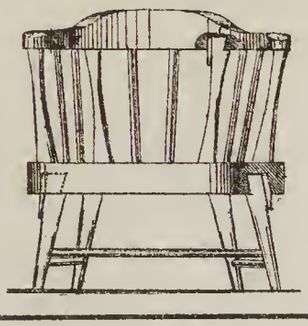
95,489, MARTIN KINTZBACH. **DOLLS.**



95,490, ROBERT M. LAFFERTY.
SAWING-MACHINE.

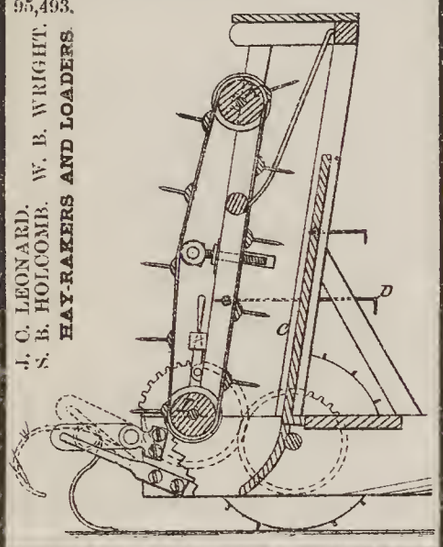


95,491. ALLEN LATHAM. **CHAIR.**



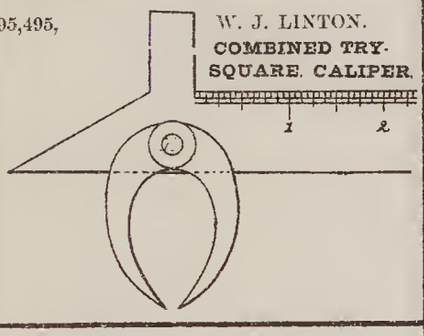
95,492. L. F. LEGER.
CHOCOLATE-PASTE.

95,493. J. C. LEONARD. W. B. WRIGHT. N. B. HOLCOMB. **HAY-RAKERS AND LOADERS.**



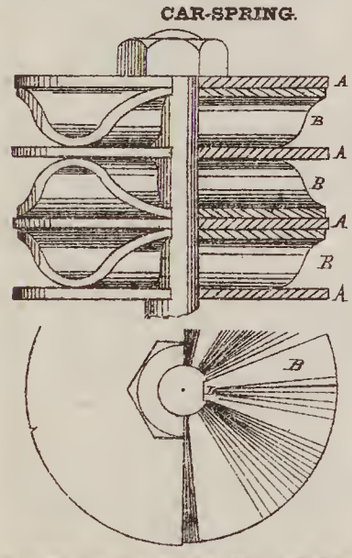
95,494. WILLIAM H. LEWIS.
MARINE PAINT.

95,495, W. J. LINTON.
COMBINED TRY-SQUARE. CALIPER.

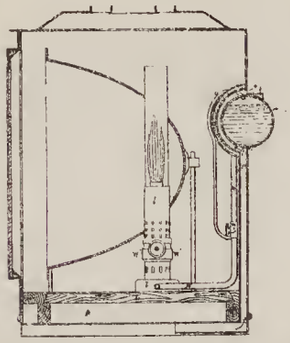


95,496, L. J. F. MARGUERITTE.
MANUFACTURE AND REFINING OF SUGAR.

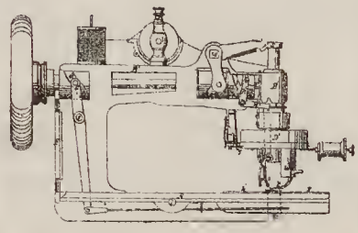
95,497, JAMES R. MATHEWS.
CAR-SPRING.



95,498, HIRAM S. MAXIM.
JAS. RADLEY.
LOCOMOTIVE HEAD-LIGHTS.

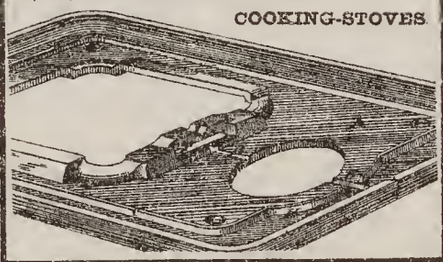


95,499, THOMAS L. MELONE.
SEWING-MACHINE.



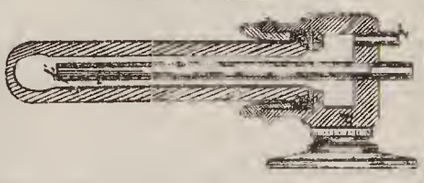
95,500, T. F. MENDE. F. C. MENDE.
PROCESS OF MANUFACTURING GERMAN HAND-CHEESE.

95,501, BERNARD H. MENKE.
COOKING-STOVES.

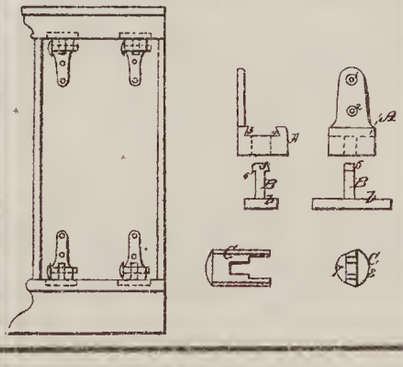


95,502 . SUSPENDED.

95,503, GEORGE MURRAY.
WATER-GAUGES.

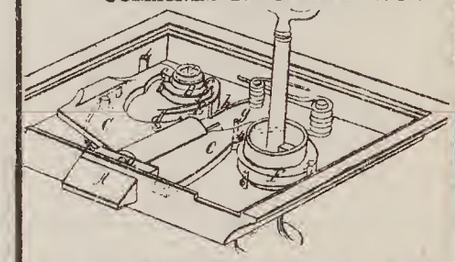


95,504, J. O. L. MURRAY.
D. A. MULLANE.
DEVICE FOR HOLDING TOGETHER THE DIFFERENT PARTS OF BUREAUS AND OTHER ARTICLES OF FURNITURE.

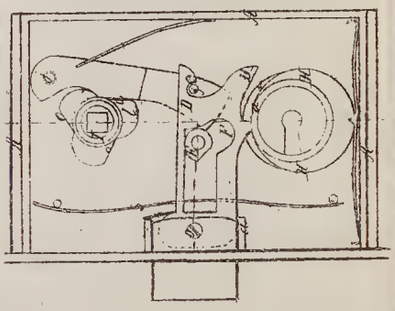


95,505. A. S. PERRIGO.
CULTIVATORS.

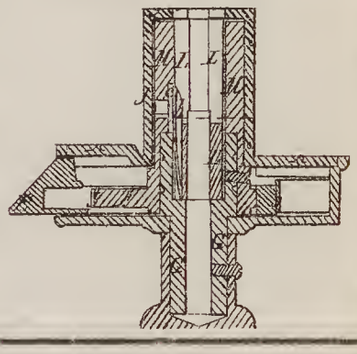
95,506, N. PETRE
COMBINED LATCH AND LOCK.



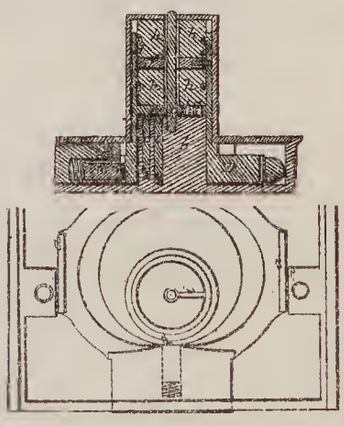
95,507, N. PETRÉ.
COMBINED LATCH AND LOCK.



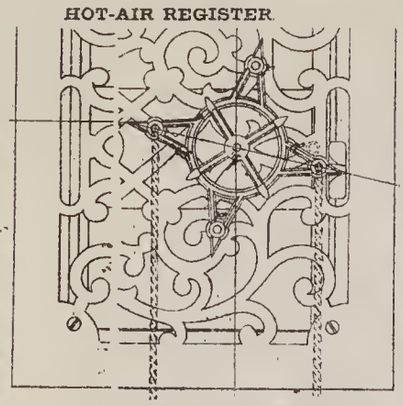
95,508, N. PETRE. **LATCHES.**



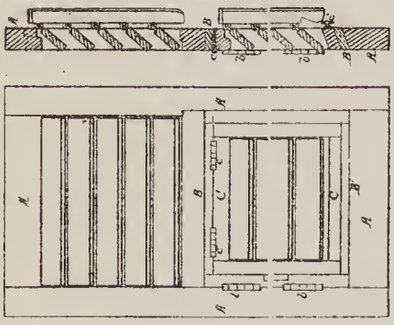
95,509, N. PETRE. **LOCKS.**



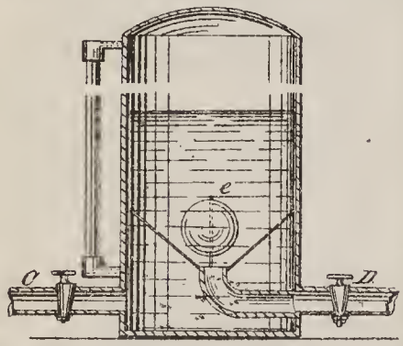
95,510, HUGH M. PHINNEY.
HOT-AIR REGISTER.



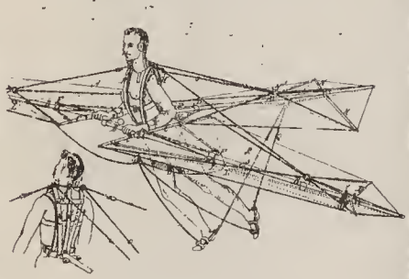
95,511, M. PIRZ. ANT. PIRZ.
WINDOW-BLIND.



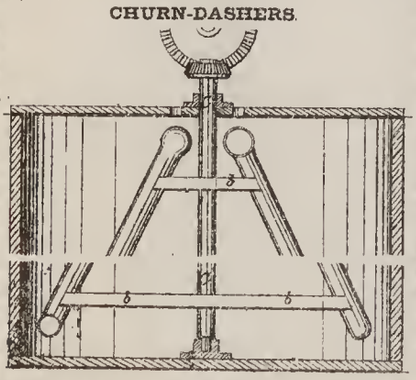
95,512, JAMES W. PRENDERGAST.
AIR-PRESSURE WATER-RESERVOIRS.



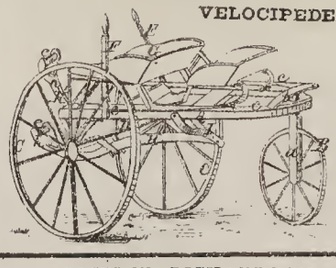
95,513, W. F. QUINBY.
FLYING-MACHINES.



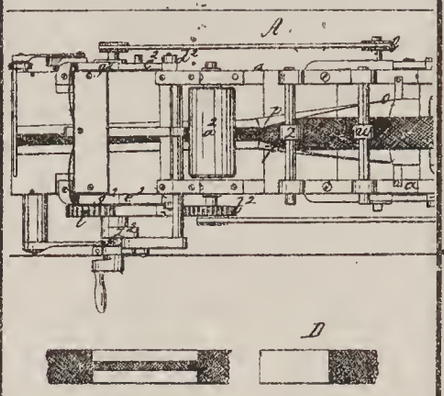
95,514, GUSTAV RADBRUCH.
CHURN-DASHERS.



95,515, JOHN REINHART.
VELOCIPEDE.

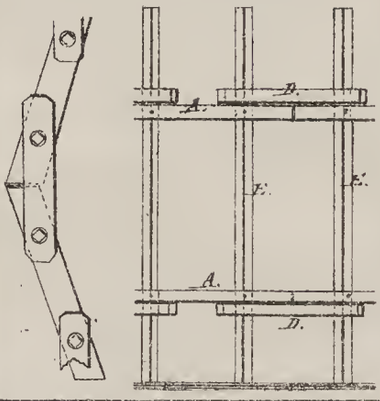


95,516, JOHN W. RICHARDSON.
MACHINE FOR MAKING AND WRAPPING WEBBING BOOT-STRAPS.

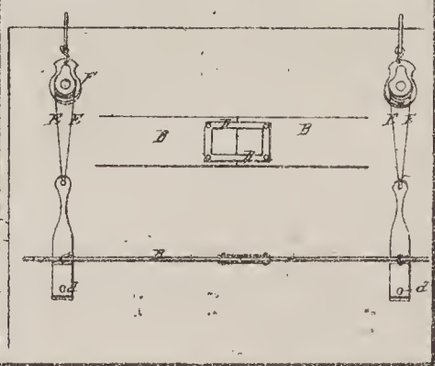


95,517, JOHN RILEY.
CHARLES W. BISSELL.
COMPOSITION FOR COVERING STEAM-BOILERS, &c.

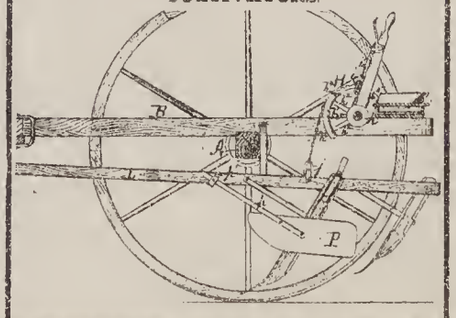
95,518, SMITH RILEY. **FENCES.**



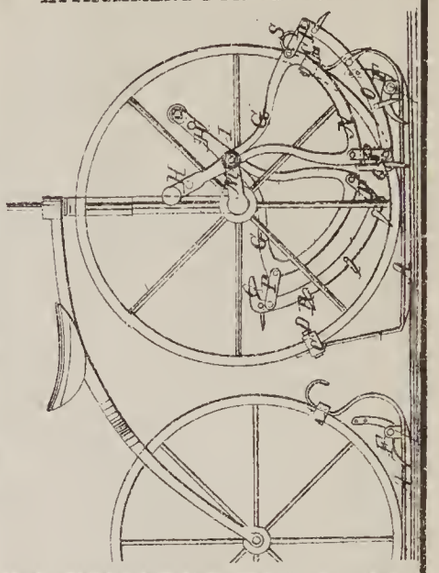
95,519, WASHINGTON B. ROSS.
STAGING FOR ROOFS.



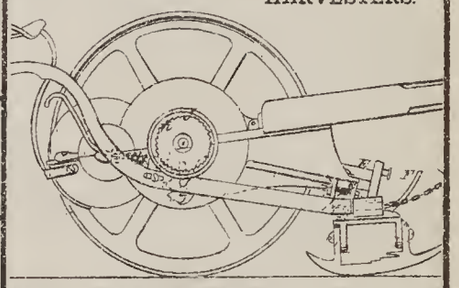
95,520, SIDNEY A. SABIN.
CULTIVATORS.



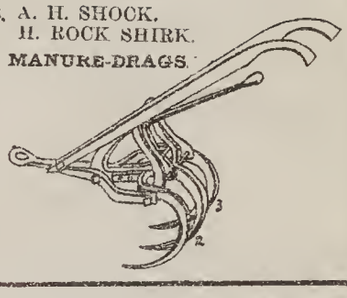
95,521, THEODORE SEARING. **SLEIGH-ATTACHMENT FOR VELOCIPEDES.**



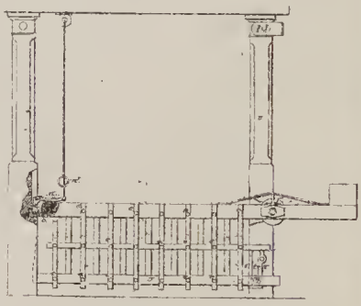
95,522, ALLEN SHERWOOD.
HARVESTERS.



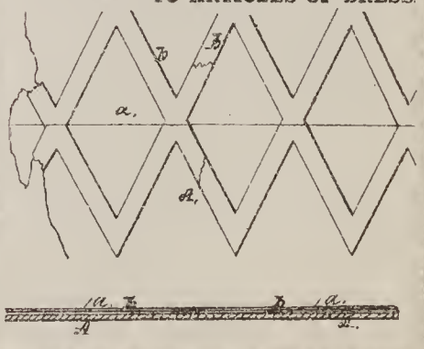
95,523, A. H. SHOCK.
H. ROCK SHIRK.
MANURE-DRAGS.



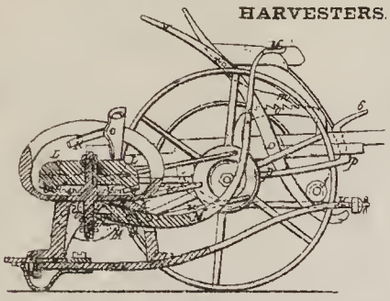
95,524, DANIEL SHOCKEY. **FARM-GATE.**



95,525, JOHN SIMS
MODE OF ATTACHING TRIMMINGS TO ARTICLES OF DRESS.

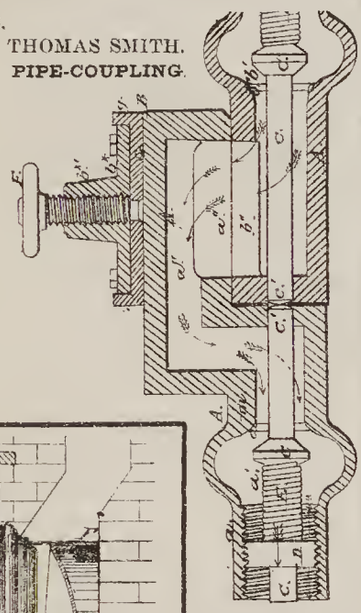


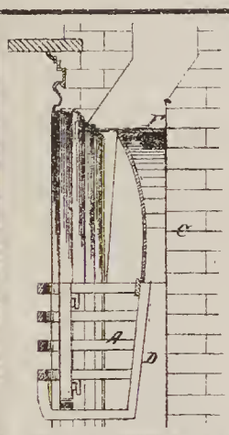
95,526. WILLIAM D. SLACK. **HARVESTERS.**



95,527. LEBBEUS W. SMITH. **MANUFACTURE OF SOAP FOR MEDICINAL AND FOR OTHER PURPOSES.**

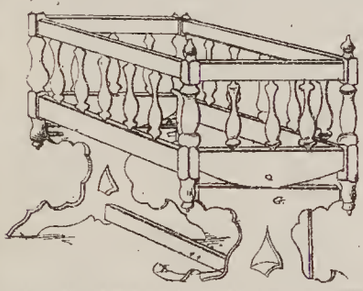
95,528. THOMAS SMITH. **PIPE-COUPLING.**



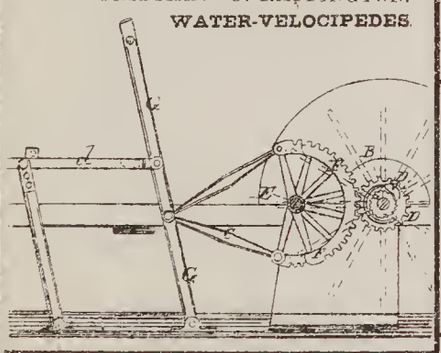


95,529, ASA SNYDER. **FIRE-PLACE.**

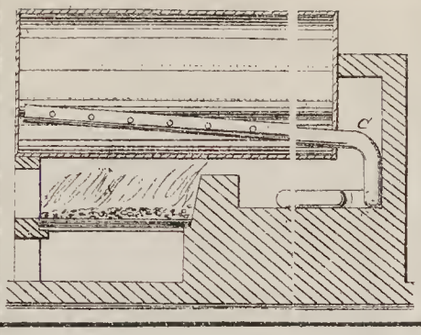
95,530, AUGUSTUS SPIEGEL. **CRADLES.**



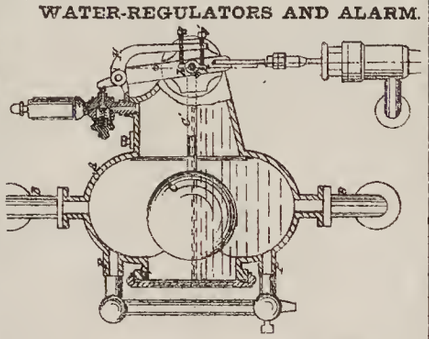
95,531, F. A. SPOFFORD. MATTHEW G. RAFFINGTON. **WATER-VELOCIPEDES.**



95,532, SAMUEL STANTON. **STEAM-GENERATORS.**

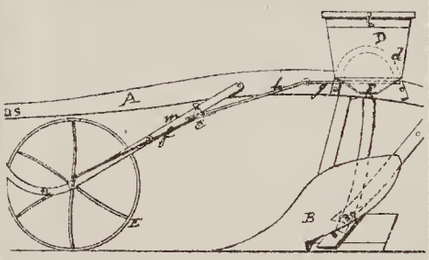


95,533, LEOPOLD STEIGERT. **BOILER WATER-REGULATORS AND ALARM.**

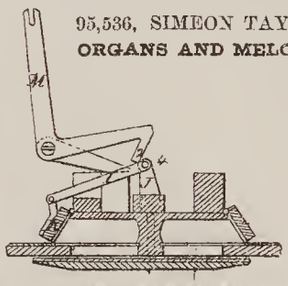


95,534, R. S. STENTON. **MANUFACTURE OF PIGMENTS FOR PAINTS.**

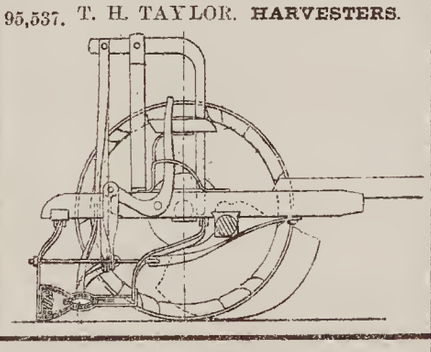
95,535, S. STOW. **SEED-DRILLS.**



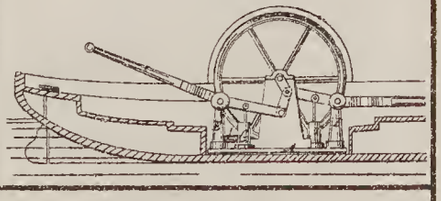
95,536, SIMEON TAYLOR. **ORGANS AND MELODEONS.**



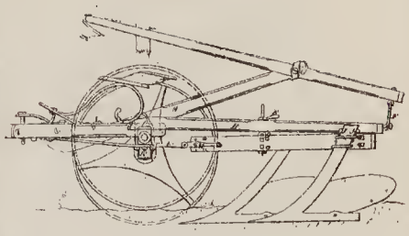
95,537. T. H. TAYLOR. **HARVESTERS.**



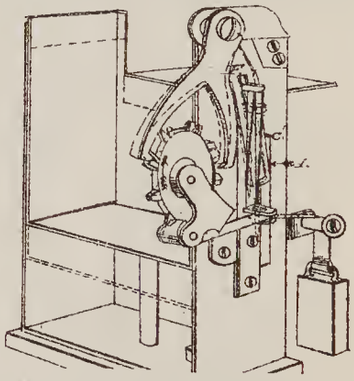
95,538, HENRY THOMPSON. **LIFE-BOATS.**



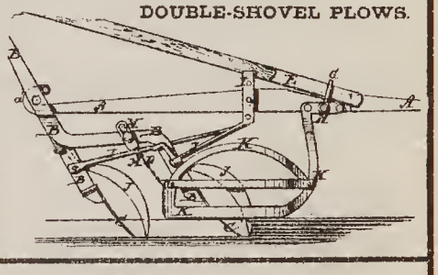
95,539, J. N. THOMPSON. WILLIAM KENADY. **GANG-PLOW.**



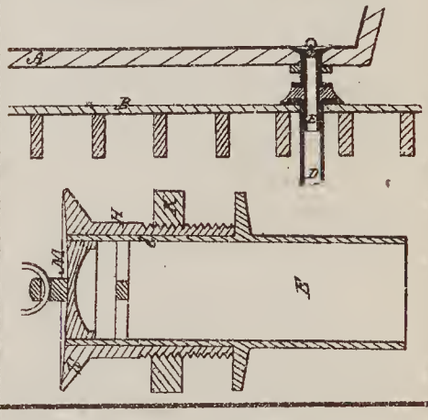
95,540, HENRY H. TRENOR. **AUTOMATIC PASSENGER-REGISTER.**



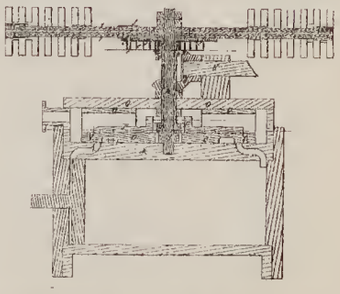
95,541, CH. IMMANUEL VOIGT. **DOUBLE-SHOVEL PLOWS.**



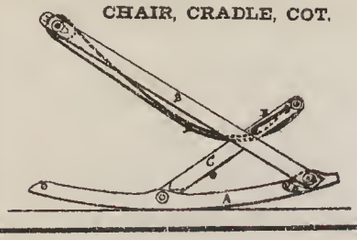
95,542, WM. H. WALTON. **BATH-TUB EDUCTION-TUBES.**



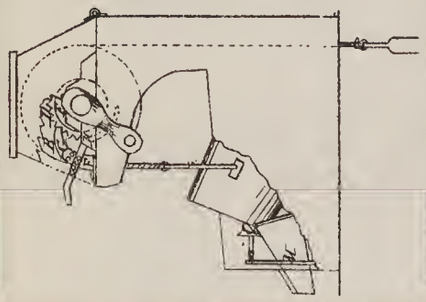
95,543, WILLIAM WICKERSHAM. **STEAM-ENGINE GOVERNORS.**



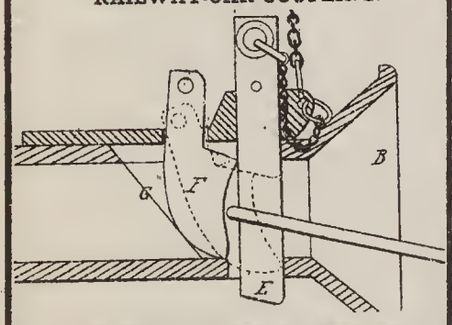
95,544, JOHN T. WIGHTMAN.
CHAIR, CRADLE, COT.



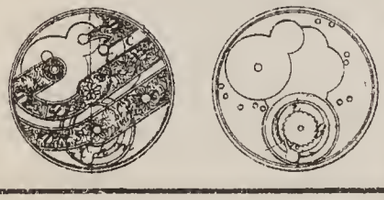
95,545, J. W. WHEELER.
WATER-ELEVATORS.



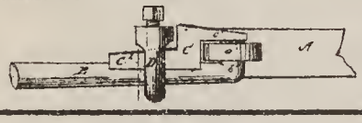
95,546, JOSEPH C. WILSON.
RAILWAY-CAR COUPLING.



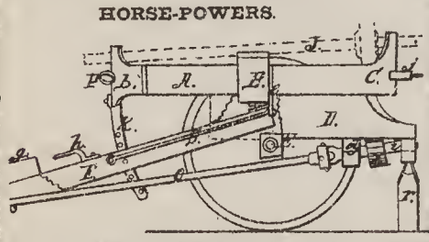
95,547, CHAS. V. WOERD. **WATCHES.**



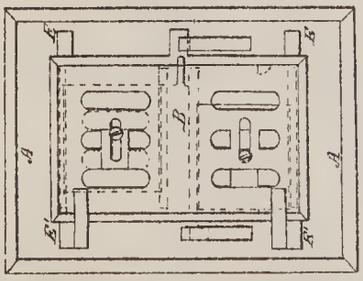
95,548, RUFUS C. WOOD.
PITMAN-CONNECTION FOR HARVESTER.



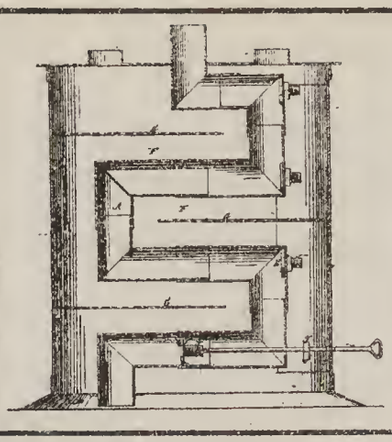
95,549, DANIEL WOODBURY.
HORSE-POWERS.



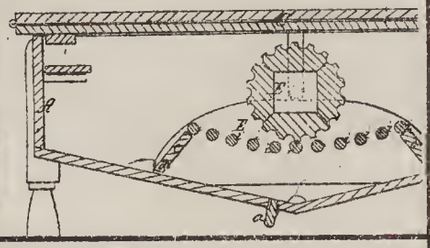
95,550, DAVID H. YOUNG.
FURNACE-DOOR FRAMES.



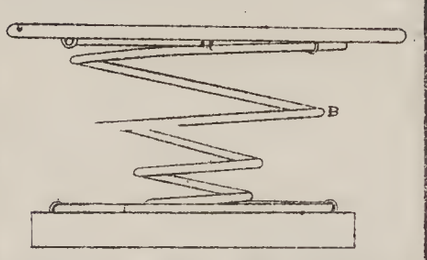
95,551, WM. ALLCHIN. **STOVE-DRUM.**



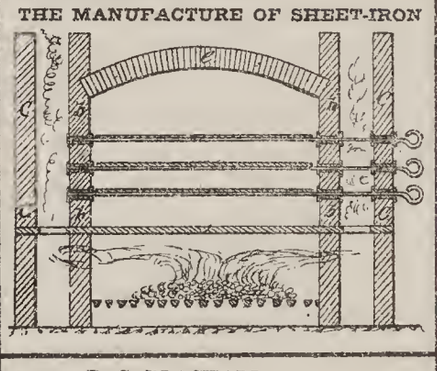
95,552, DANIEL ARNDT.
WASHING-MACHINE AND TABLE.



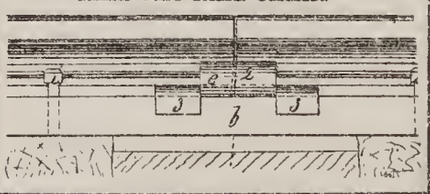
95,553, LYMAN M. BATES.
SPRINGS FOR BED-BOTTOMS.



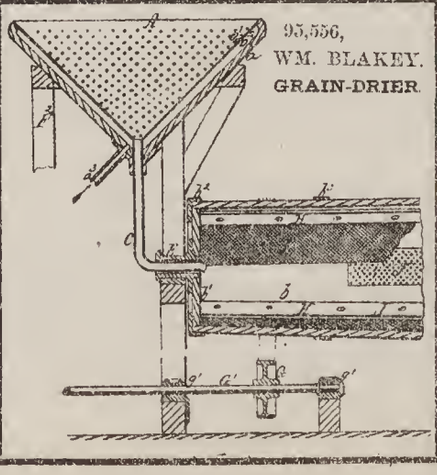
95,554, SILAS BARKER.
THE MANUFACTURE OF SHEET-IRON.



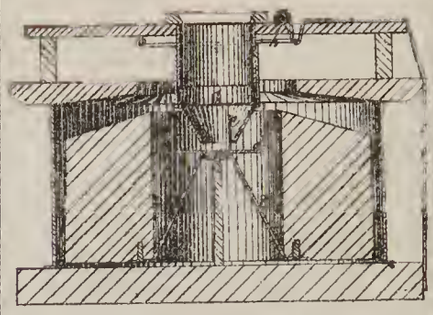
95,555, R. C. BLACKALL.
RAILWAY-RAIL CHAIR.



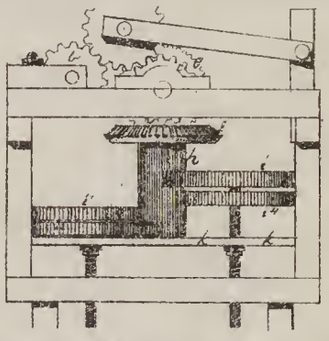
95,556, WM. BLAKEY.
GRAIN-DRIER.



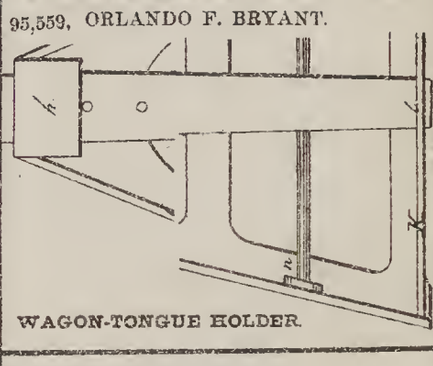
95,557, R. W. BOWMAN.
GRINDING-MILLS.



95,558, ASA BROOKS. **CIDER-PRESSES.**

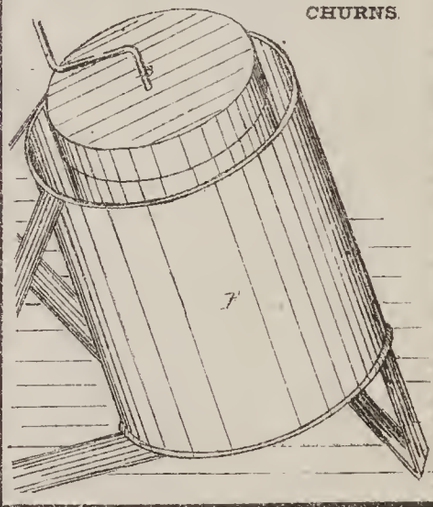


95,559, ORLANDO F. BRYANT.

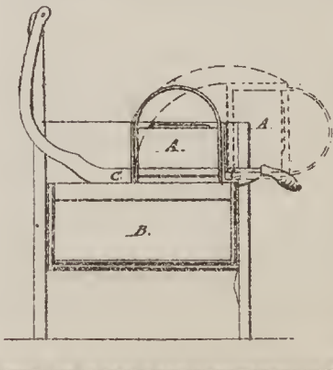


WAGON-TONGUE HOLDER.

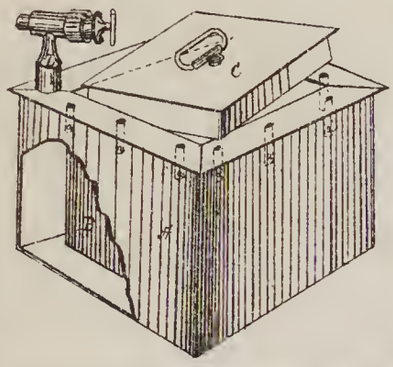
95,560, FRANCIS BURDICK.
LODOWICK BURDICK.
CHURNS.



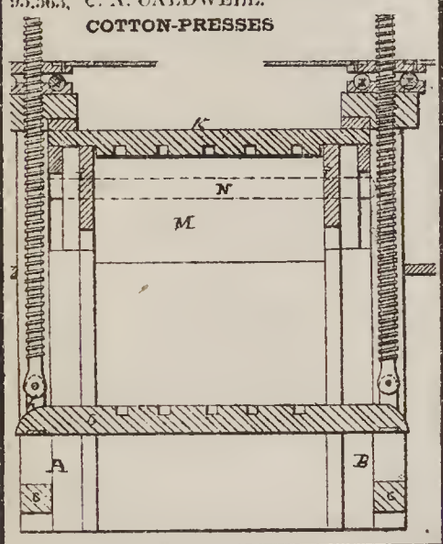
95,561, JESSE BURGESS. **COMBINED STRAW-CUTTER AND FEED-BOX.**



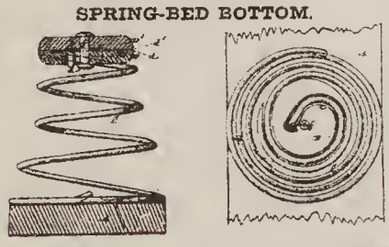
95,562, MORGAN BURTON.
REFRIGERATOR.



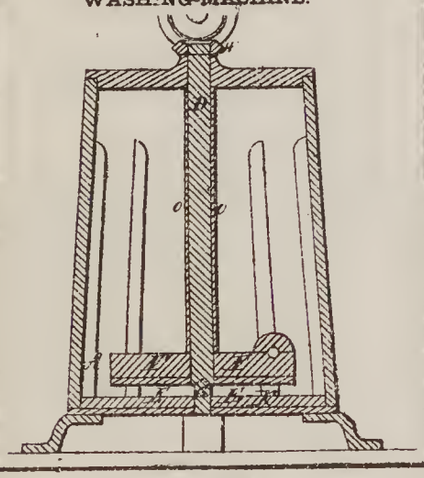
95,563, C. A. CALDWELL.
COTTON-PRESSES



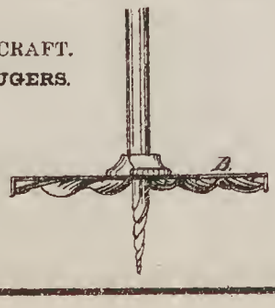
95,564, CHARLES L. CHADEAYNE.
SPRING-BED BOTTOM.



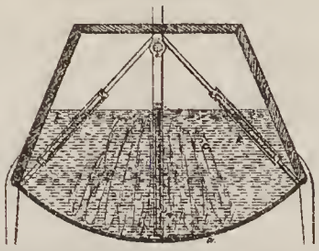
95,565, E. HALL COVEL.
WASHING-MACHINE.



Z. S. CRACRAFT.
POST-AUGERS.

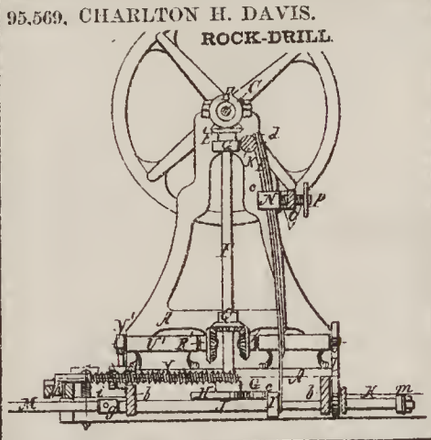


95,567, JOHN CRAMPTON.
WM. H. PANGBORN.
WASHING-MACHINE.

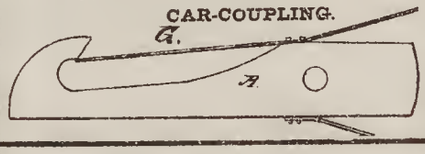


95,568, NORMAN CUTTER.
ELLIOT SAVAGE.
MANUFACTURE OF IRON AND STEEL.

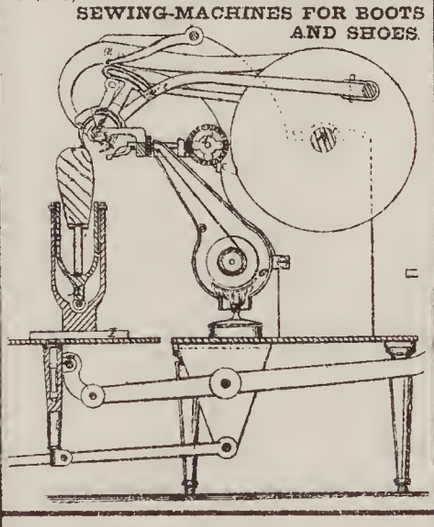
95,569, CHARLTON H. DAVIS.
ROCK-DRILL.



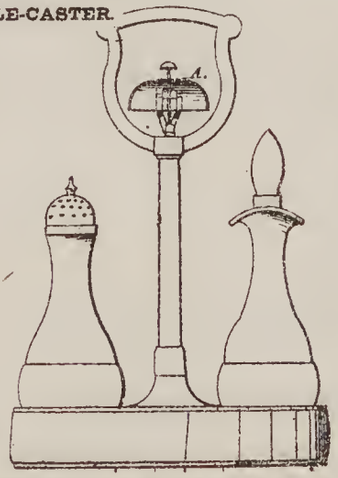
95,570, CALVIN R. DENSMORE.
JACOB A. VROOMAN.
CAR-COUPLING.



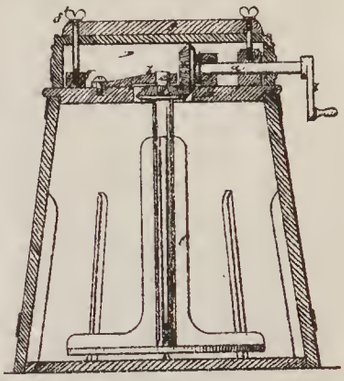
95,571, AUGUSTE DESTOUY.
SEWING-MACHINES FOR BOOTS AND SHOES.



95,572, HENRY A. DIRKES.
TABLE-CASTER.

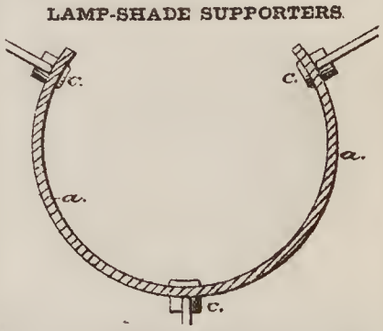


95,573, CHAS. F. DODGE.
WASHING-MACHINE.



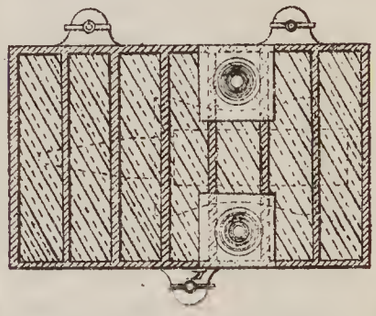
95,574, JOSHUA ELLINGWOOD.
PROCESS OF DISTILLING SPIRITS.

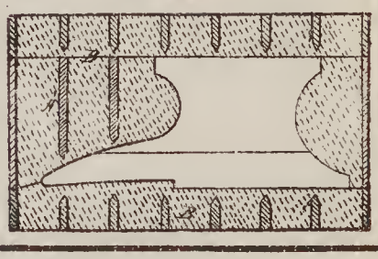
95,575, C. W. EMERSON.
LAMP-SHADE SUPPORTERS.



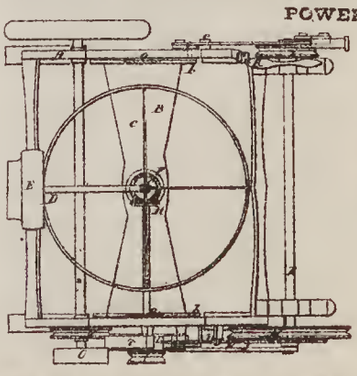
95,576, B. F. FIELD. R. D. O. SMITH.
FABRIC FOR ROOFING AND FOR OTHER PURPOSES.

95,577, DAVID FOSTER. **MANUFACTURE OF ANVILS, AND THE TOP AND BOTTOM PARTS OF HAMMERS.**

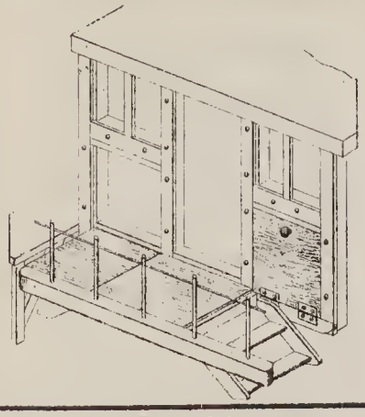




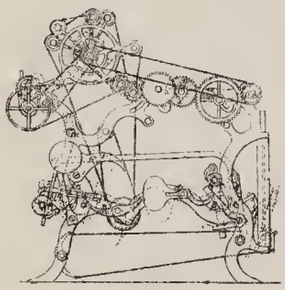
95,578, ARTHUR L. FREEMAN.
APPARATUS FOR TRANSMITTING POWER.

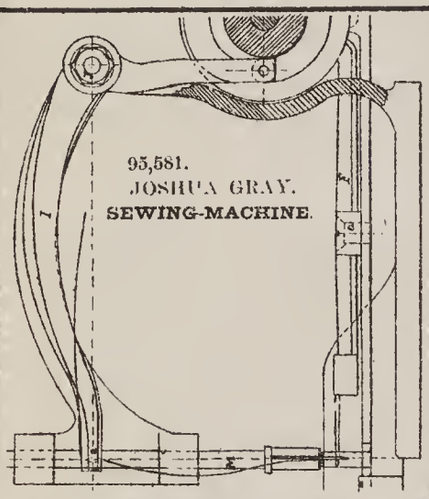


95,579, J. GILMER.
PLATFORM FOR RAILWAY-CARS.



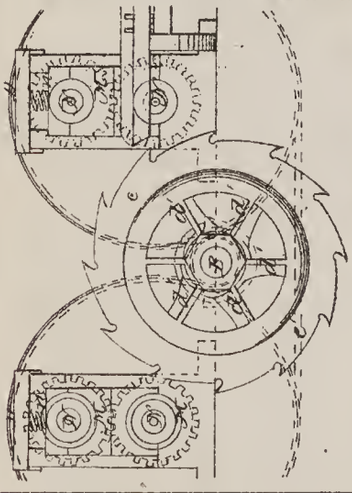
95,580, JOHN GOULDING.
MACHINE FOR DRAWING AND SPINNING WOOL, &c., FROM THE CARDING-MACHINE.



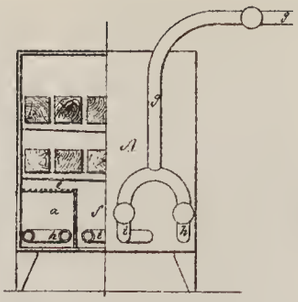


95,581.
JOSHUA GRAY.
SEWING-MACHINE.

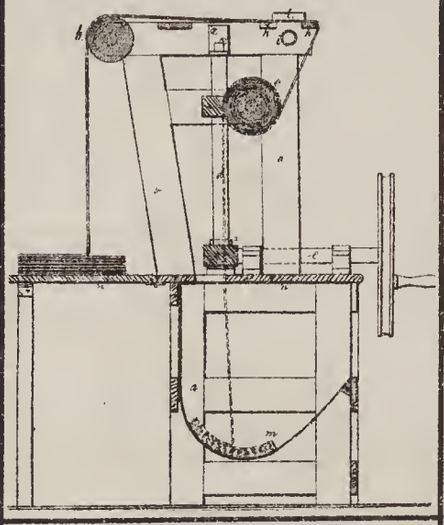
95,582, WILLIAM P. HALE.
MACHINE FOR SAWING LATH.



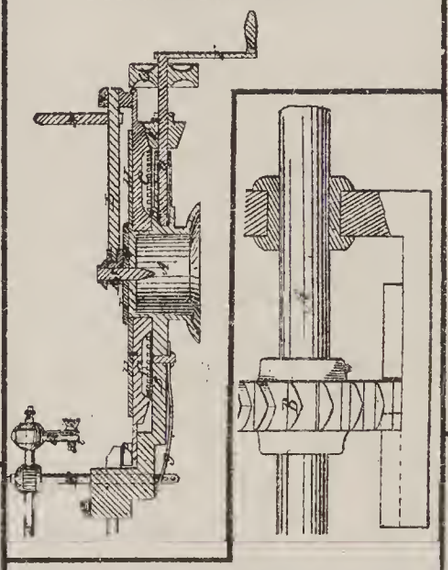
95,583, IRA HAYFORD.
JOSEPH F. PAUL.
PROCESS OF TREATING WOOD, TO PRESERVE, SEASON, AND GIVE IT A BETTER SURFACE.



95,584, W. HEBDON. **MACHINES FOR STEAMING AND SHRINKING CLOTH.**



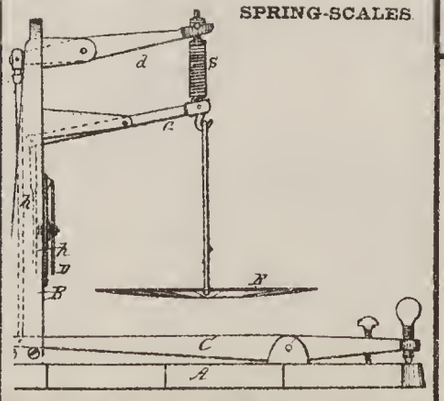
95,585. GEO. W. HECKART. **MACHINE FOR BENDING FIFTH-WHEELS.**



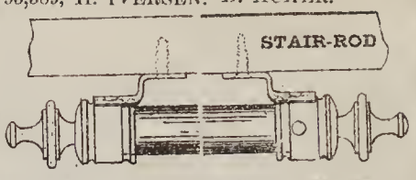
95,586, WILLIAM M. HENDERSON.
MECHANICAL MOVEMENT.

95,587 SUSPENDED.

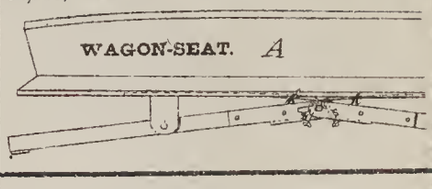
95,588, SIMON INGERSOLL.
SPRING-SCALES.



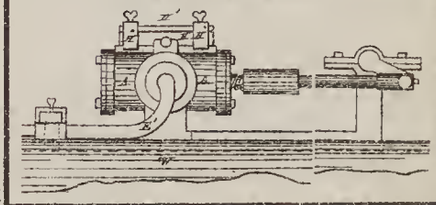
95,589, H. IVERSEN. D. ACKER.



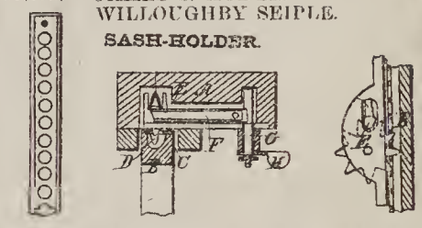
95,590, MELVIN JINCKS.



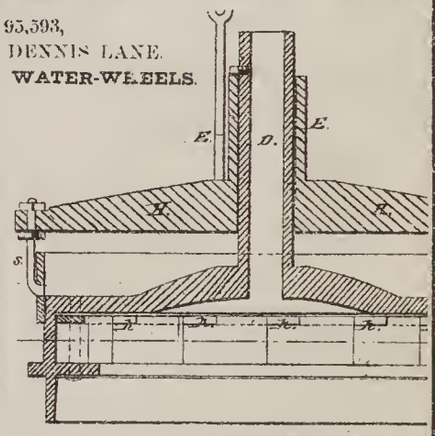
95,591, HANS KNUDSEN.
STEAM-ENGINE SLIDE-VALVES.



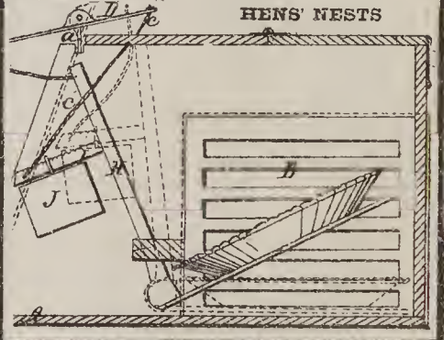
95,592, JAMES S. KUDER.
WILLOUGHBY SEIPLE.
SASH-HOLDER.



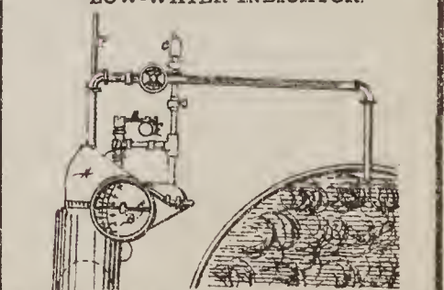
95,593,
DENNIS LANE.
WATER-WHEELS.



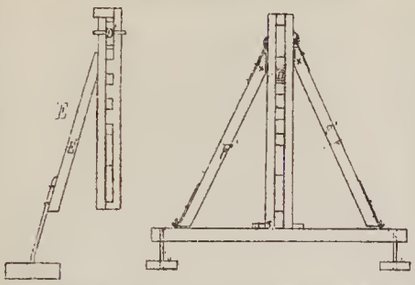
95,594, DANIEL P. LEACH.
HENS' NESTS



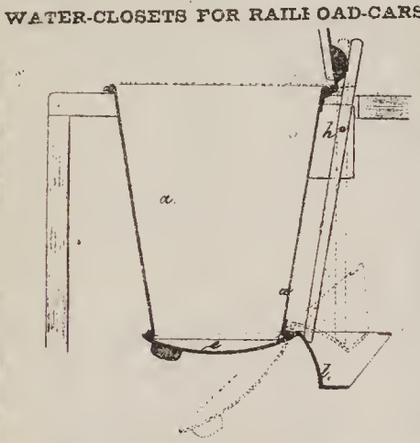
95,595, L. L. LEE.
LOW-WATER INDICATOR.



95,596, WM. MALLARY. **FENCES.**



95,597, WM. E. MARSH.
WATER-CLOSETS FOR RAILROAD-CARS.



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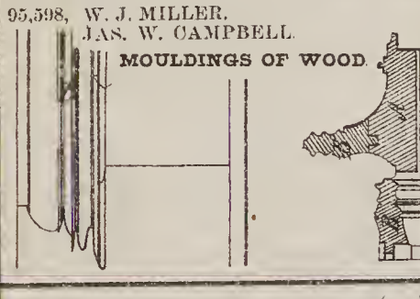
JAS. W. CAMPBELL.
MOULDINGS OF WOOD.



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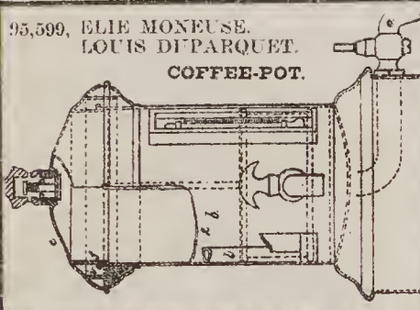
LOUIS DUPARQUET.
COFFEE-POT.



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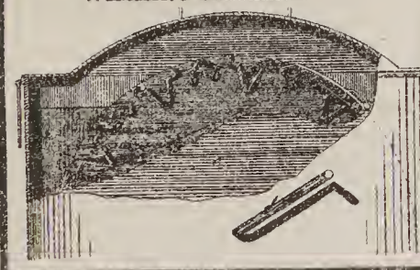
WASHING-MACHINE.



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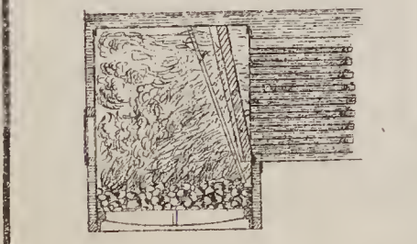
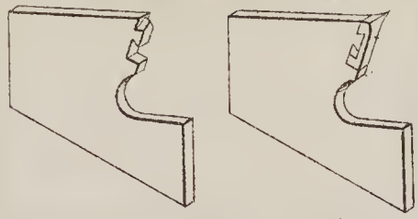
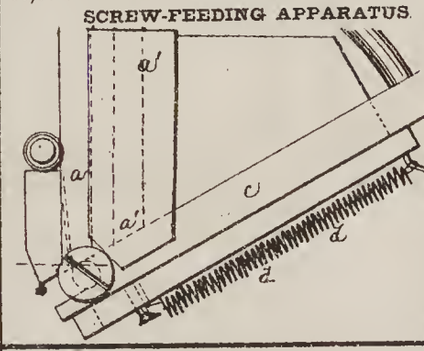
BOILER-FURNACES.



95,602, W. B. NOYES. **SAW-TEETH**



95,603. ELIJAH S. PIERCE.
SCREW-FEEDING APPARATUS.



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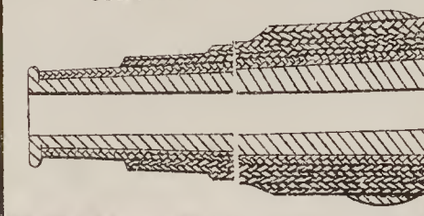
CONSTRUCTION OF ORDNANCE.



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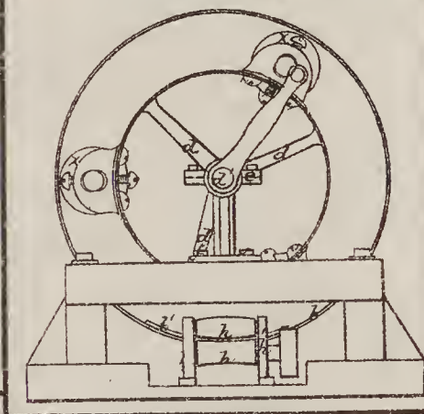
SIRUP FOR FLAVORING BEVERAGES.

95,606, H. E. ROGERS.
CALENDERING-MACHINE.



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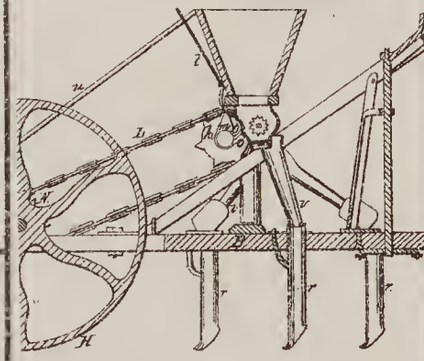
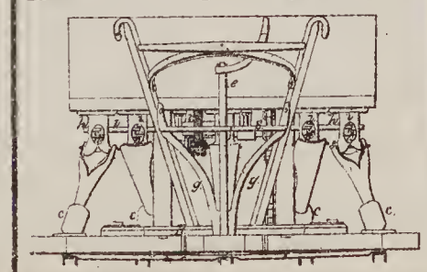
S. B. RUDE. **GRAIN-DRILLS.**





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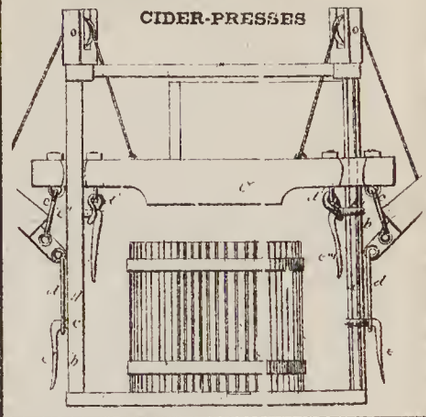
EMANUEL STONER.
CIDER-PRESSES.



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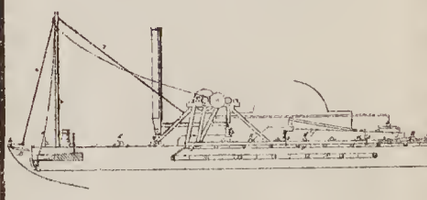

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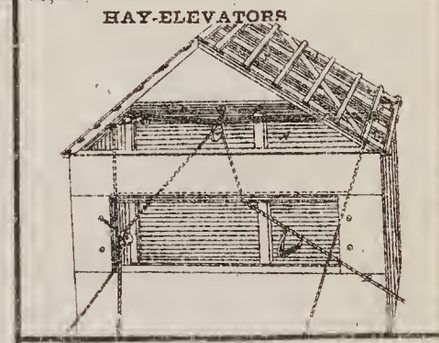
COMPOUND FOR CURING TOOTHACHE.

95,611, ANTHONY SMITH.
HAY-ELEVATORS.



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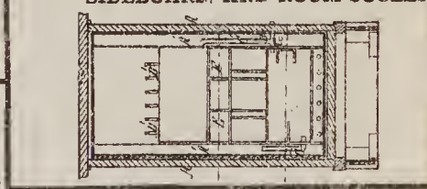

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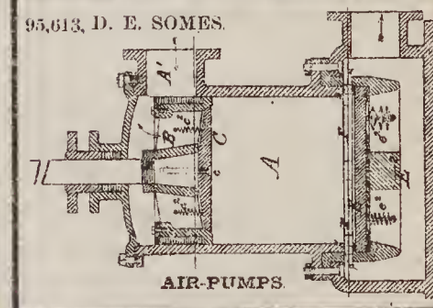
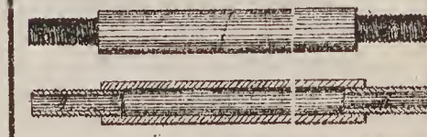


AIR-PUMPS.

95,614, ROBERT SPEAR.
APPARATUS FOR TRANSMITTING POWER BY MEANS OF A FLUID PASSED THROUGH A PIPE OR TUBE.



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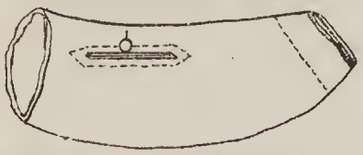
SLEEVES OF OVERCOATS.



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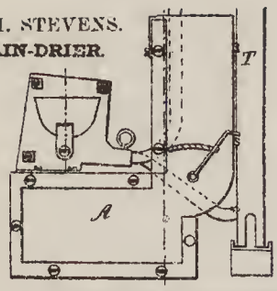
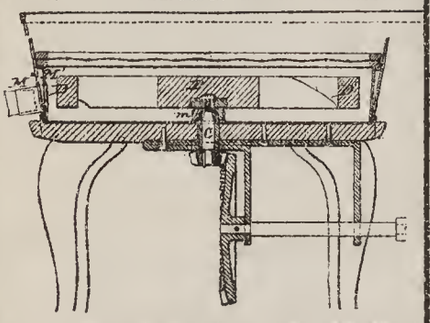
SIDNEY M. STEVENS.
GRAIN-DRIER.



95,617, CHAS. M. STRAUSS.
PROCESS OF FORMING LETTERS, CHARACTERS, AND ORNAMENTS ON GLASS.

95,618, J. A. STRONG. **DISH-WASHER.**



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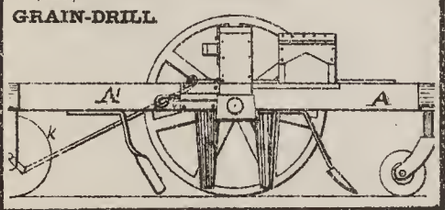
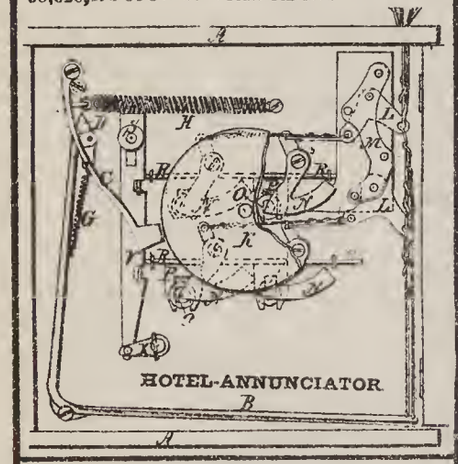
GRAIN-DRILL.



95,620, LUCIUS J. VANSANDS.



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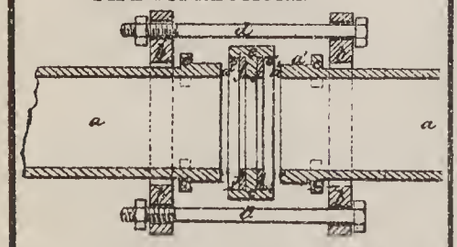
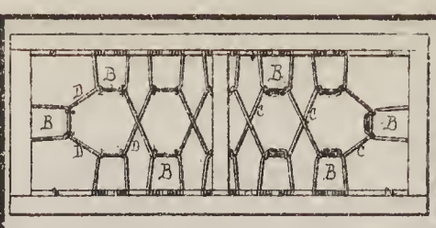
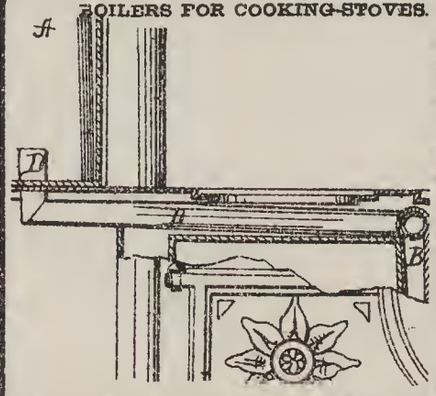
PIPE-CONNECTIONS.



95,622, N. S. WHIPPLE.
SPRING FOR BEDS, BERTHS, CAR-SEAT

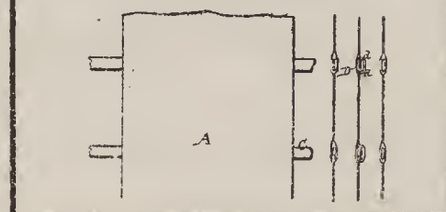


95,623, HENRY R. ROBBINS.
BOILERS FOR COOKING-STOVES.



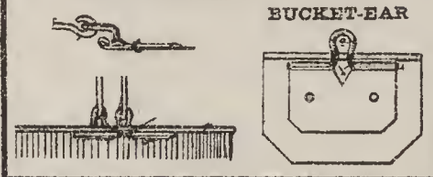
95,624, WM. THORPE.
MODE OF APPLYING INKS OF DIFFERENT CHARACTERS, SO AS TO PRINT SAFETY, REVENUE, AND OTHER STAMPS.

95,625. K. McRAE. **HOOP-SKIRTS**

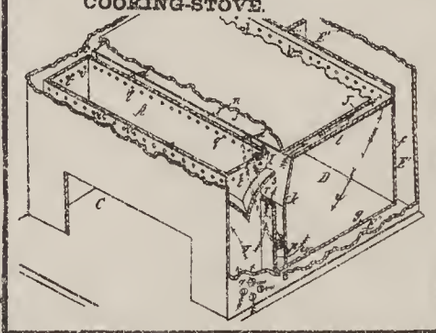


95,626, THOMAS ANTISELL.
INKS FOR PRINTING REVENUE, POSTAGE, AND OTHER STAMPS, SO AS TO SECURE GREATER SAFETY AND PREVENT FRAUDS.

3,658, HENRY CALLAHAN,
JOHN REESE, R. S. HOGLEN.
BUCKET-EAR



3,659, EDMUND J. CRIDGE.
COOKING-STOVE.



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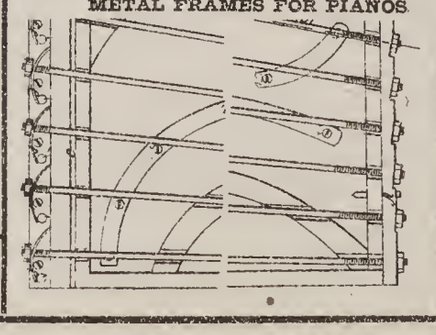
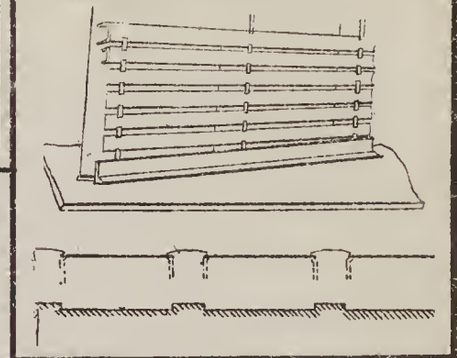
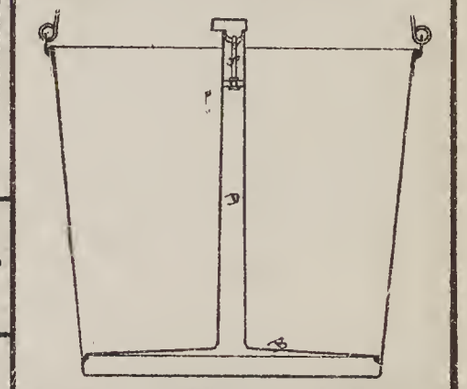
METAL FRAMES FOR PIANOS.



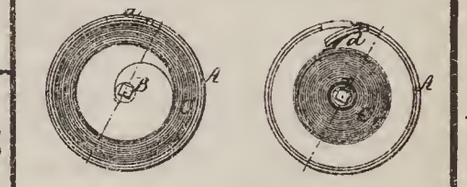
3,661, ISAAC V. HOLMES.
METALLIC LATHING.



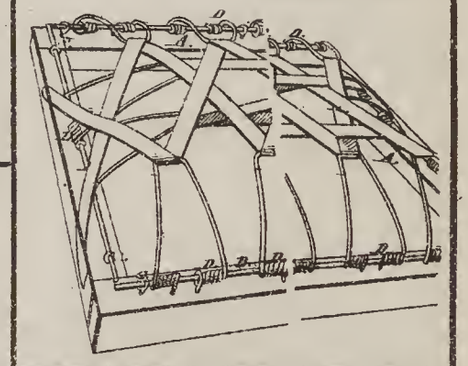
3,662, JOHN REIST. **WASH-BOILER**



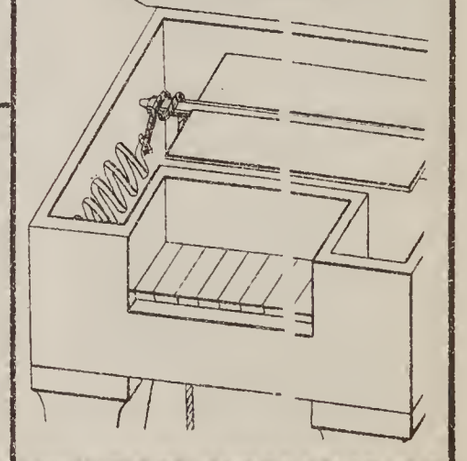
3,663 ARTHUR WADSWORTH.
ROBERT SCHELL.
ATTACHMENT OF MAIN-SPRINGS TO WATCH-BARRELS, &c.



3,664 J. L. WHIPPLE, E. TROWBRIDGE.
SPRING-SEAT.



3,665, HITCHCOCK, SAXE, ROBERTSON.
TREMOLO-ATTACHMENT.



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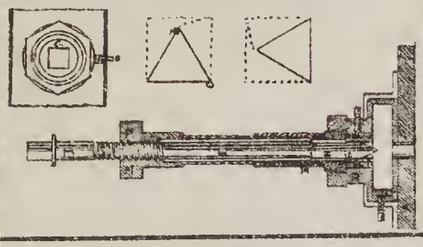
OCT. 12, 1869.

95,627, ALEX. ALLAN. **BORING-TOOL.**



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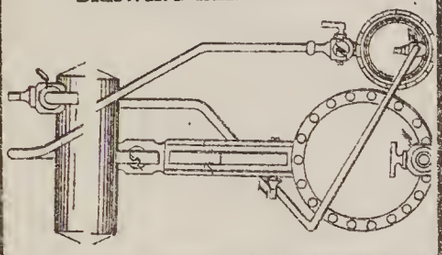
PNEUMATIC APPARATUS FOR DRAWING ALE.



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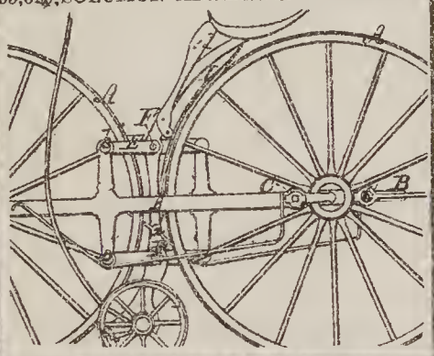

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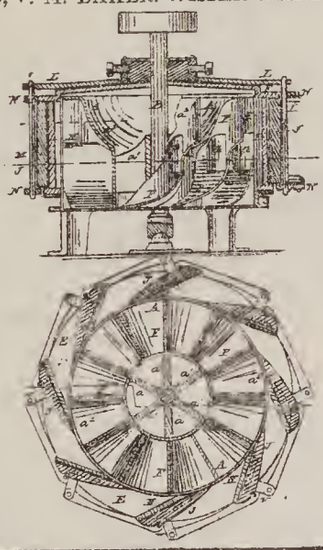
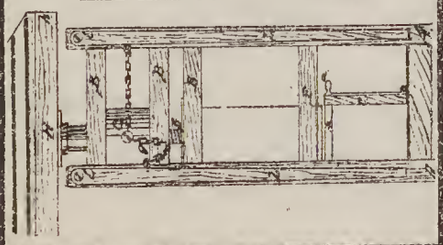
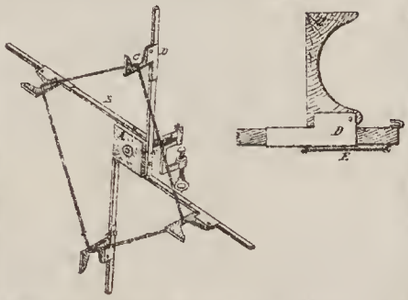


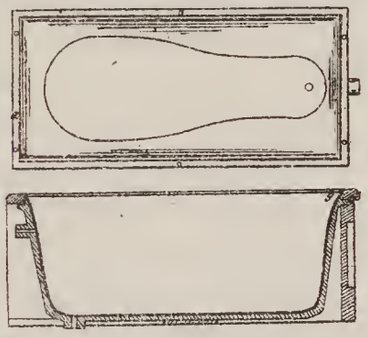
95,631, WM. C. BANKS.
HAY AND COTTON-PRESSES.



95,632, JAMES H. BARKER. **REELS.**

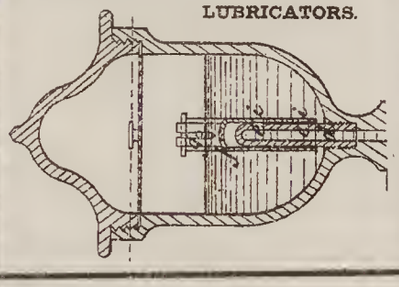


95,633, ARAD BARROWS. **BATH-TUBS.**

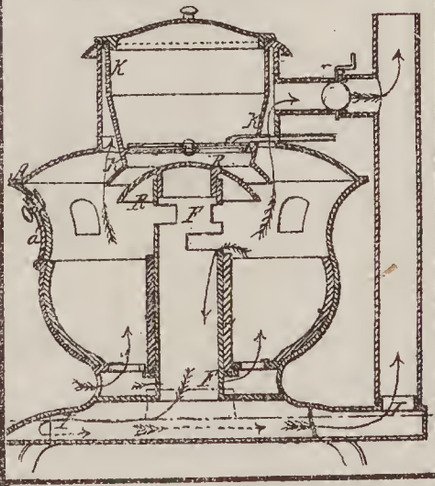


95,634, DANIEL P. BARTLETT.
ALF. ADAMS
ROOFING-FABRIC.

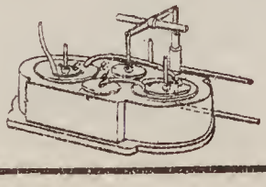
95,635, CARL AUGUST BAUMGART.
LUBRICATORS.



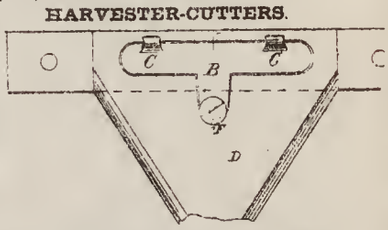
95,636, ROBERT BATTING.
BASE-BURNING STOVE.



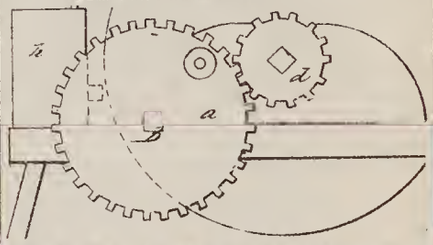
95,637, WM. BAXTER. **STEAM-ENGINES.**



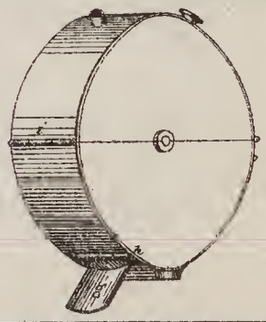
95,638, EDGAR M. BIRDSALL.
HARVESTER-CUTTERS.



95,639, BYRON BISBEE.
GRINDSTONE-FRAME.



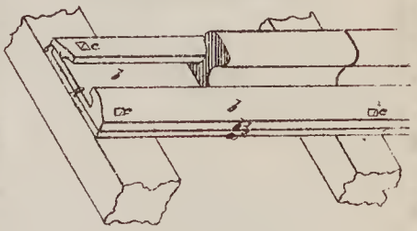
95,640, J. STRICKER BRADFORD.
ORE-CONCENTRATOR AND AMALGAMATOR.



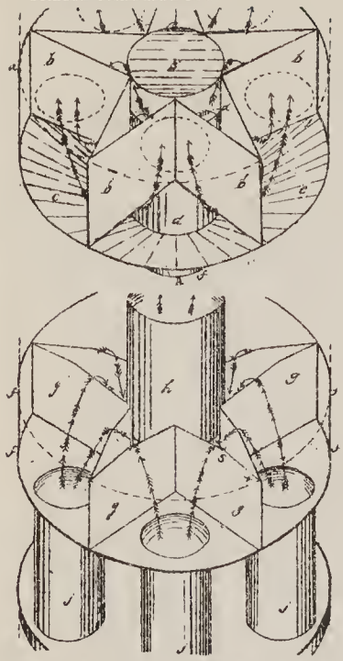
95,641, JAMES B. BREWSTER.
DRAUGHT-BARS FOR VEHICLES.

95,642, JAMES B. BREWSTER.
SUPPORTING-BARS FOR VEHICLES.

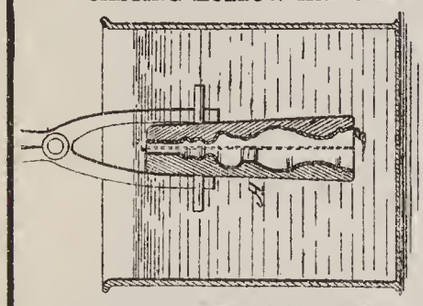
95,643, JAMES BRIDGER.
RAILWAY-RAIL CHAIR.



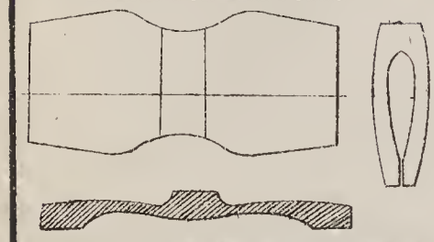
95,644, WARREN BROWN.
HEAT-RADIATOR.



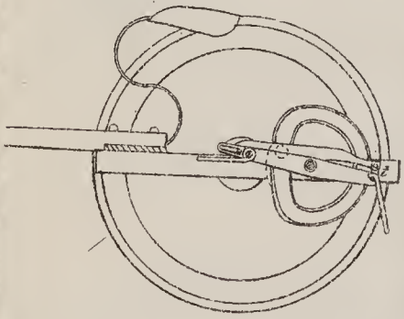
95,645, J. BRUNNER.
CASTING HOLLOW ARTICLES.



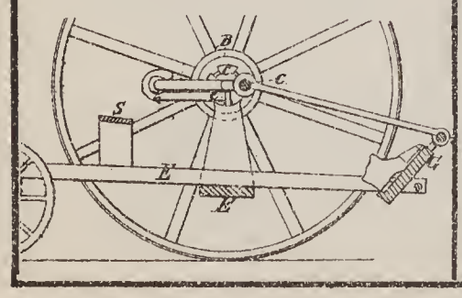
95,646, WILLIAM BUNTON.
BLANK FOR AXE-POLLS.



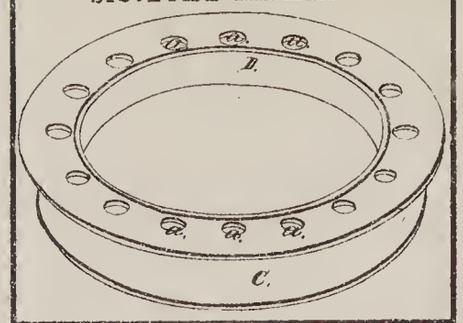
95,647, HIRAM M. BURDICK.
HAY-TEDDER.



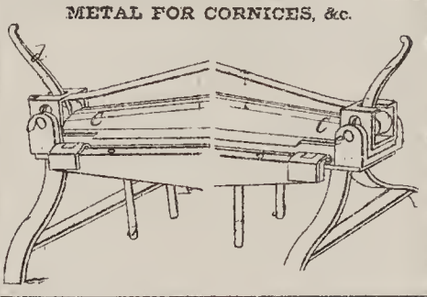
95,648, VICTOR H. BUSCHMAN.
VELOCIPEDES.



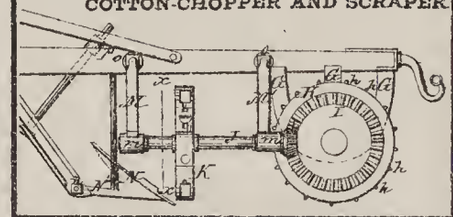
95,649, C. A. BUTTLES.
STOVE-PIPE THIMBLE.



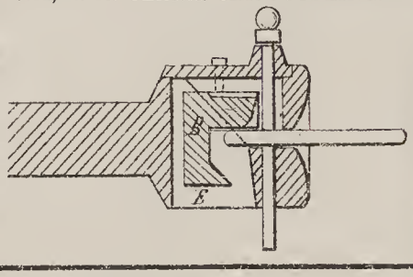
95,650, C. A. BUTTLES
D. MURPHY.
MACHINES FOR BENDING SHEET-METAL FOR CORNICES, &c.



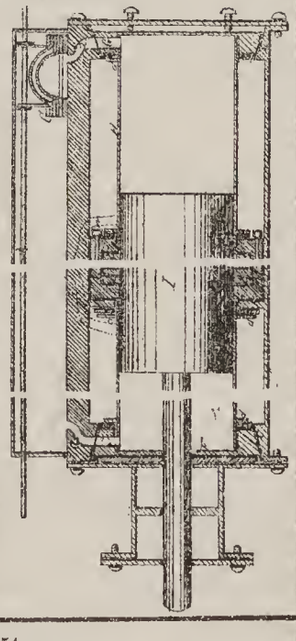
95,651, H. B. CAGE.
COTTON-CHOPPER AND SCRAPER.



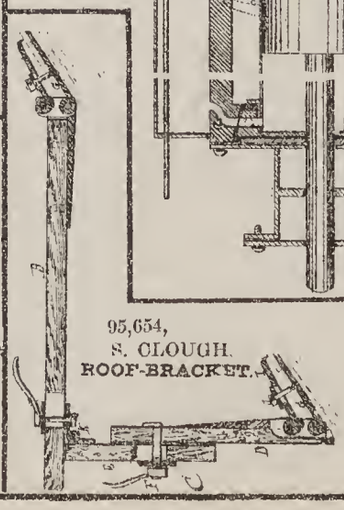
95,652, A. H. CLARK. **CAR-COUPLING.**



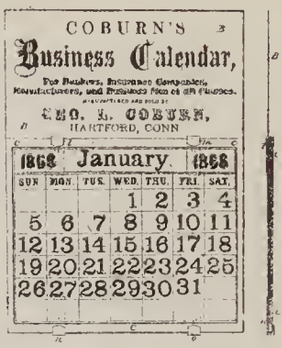
95,653, WM. H. T. CLARK.
STEAM-ENGINES.



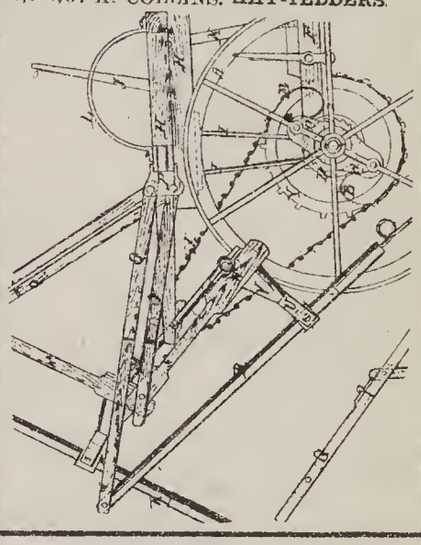
95,654,
S. CLOUGH.
ROOF-BRACKET.



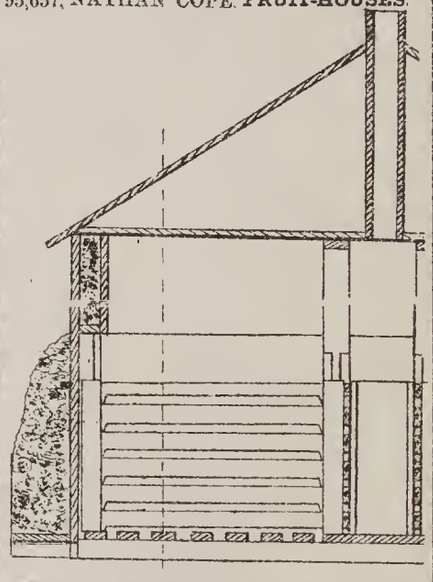
95,655, GEO. L. COBURN. **CALENDARS.**



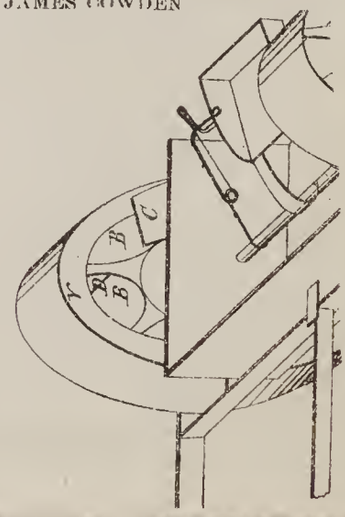
95,656, J. K. COLLINS. **HAY-TEDDERS.**



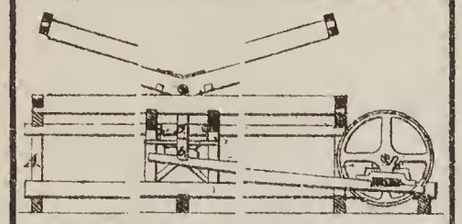
95,657, NATHAN COPE. **FRUIT-HOUSES.**



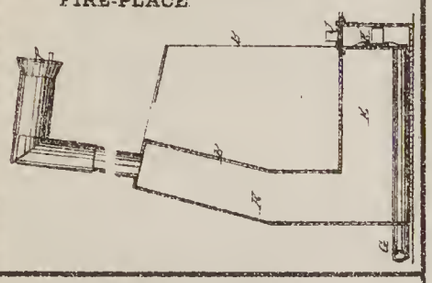
95,658, DANIEL BROWN
JAMES COWDEN **EXCAVATOR.**



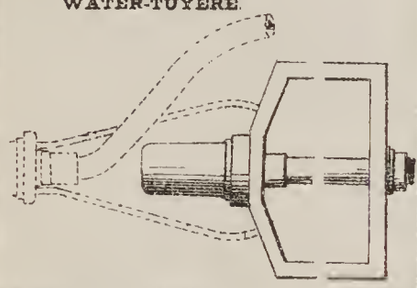
95,659, E. M. CRANDAL. **HEMP-BREAK.**



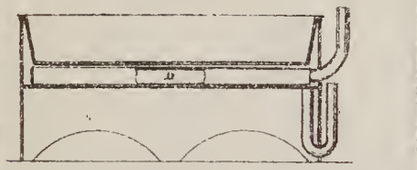
95,660, JAMES M. CROCKETT.
FIRE-PLACE.



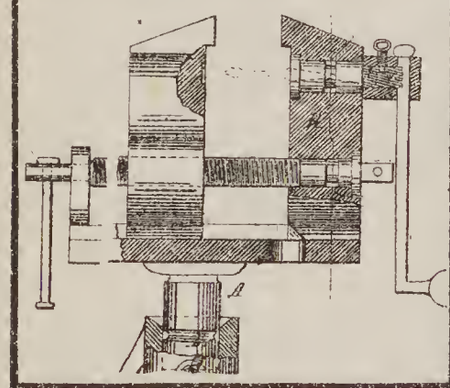
95,661, EDWARD DAVIDSON.
WATER-TUYERE.



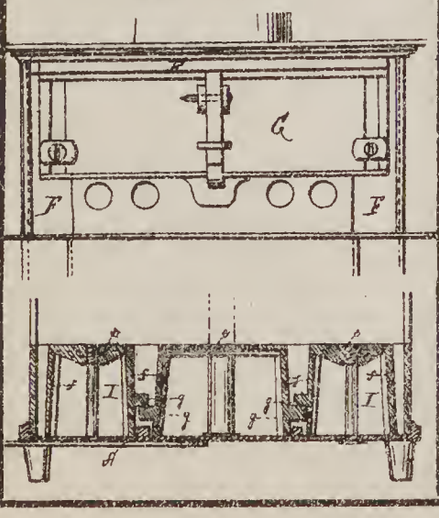
95,662, JOB A. DAVIS.
STEAM CHEESE-VAT.



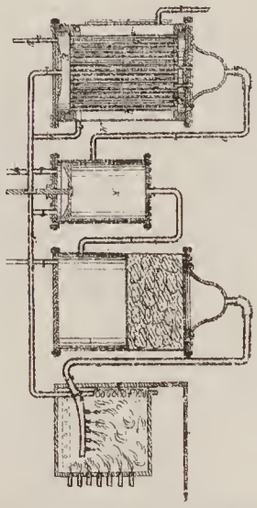
95,663, OTIS DEAN. **VISE.**



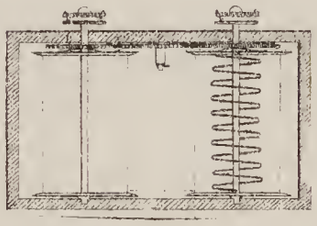
95,664, JOHN DE FRAIN.
COOKING-STOVE.



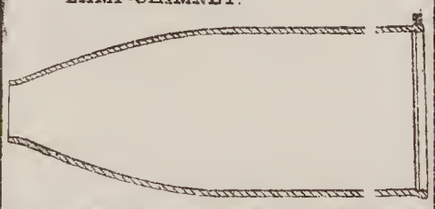
95,665, THOMAS S. DICKERSON.
MANUFACTURE AND APPLICATION OF GAS FROM PETROLEUM, &c.



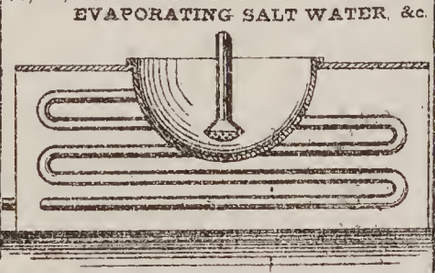
95,666, MARTIAL DIMOCK
APPARATUS FOR EXHIBITING PHOTOGRAPHS.



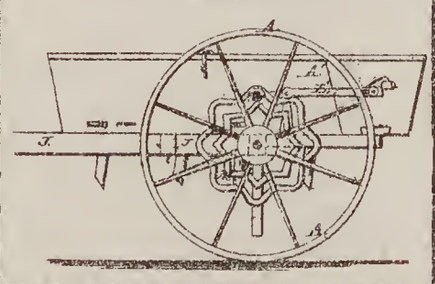
95,667, EDWD. DITHRIDGE.
LAMP-CHIMNEY.



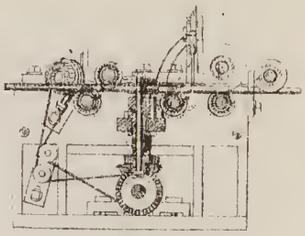
95,668, WM. JAMES DODGE
EVAPORATING SALT WATER, &c.



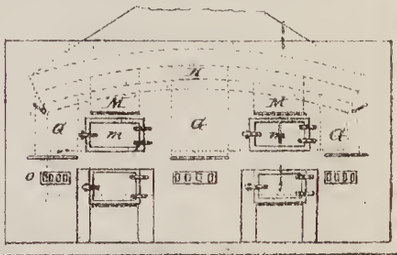
95,669, JOHN W. DOUD.
COMBINED SEED-SOWER AND CULTIVATOR.



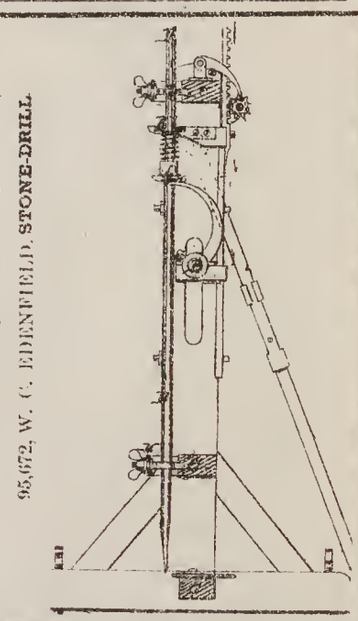
95,670, HENRY DOUGLAS.
JAMES DOUGLAS.
MACHINE FOR MAKING COP-TUBES.



95,671, JOHN S. DUNHAM. **OVEN.**
JAMES GREEN.

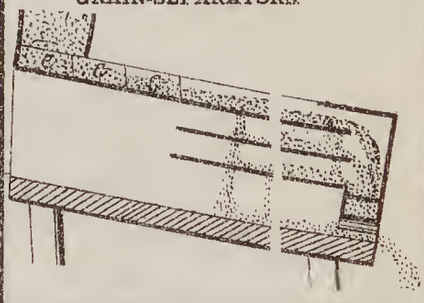


95,672, W. C. EDENFIELD. **STONE-DRILL.**

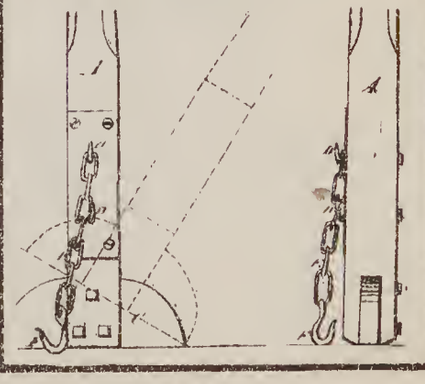


95,673, RUSSELL FISK.
COMPOUND FOR PAVEMENTS, ROADWAYS, &c.

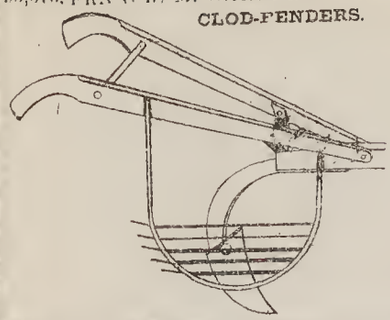
95,674, F. R. FOSTER.
GRAIN-SEPARATORS.



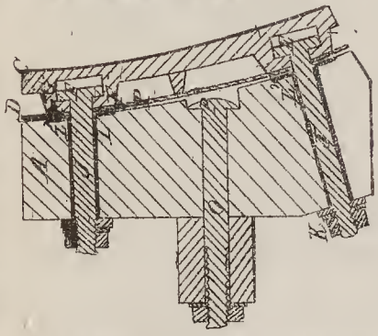
95,675, E. W. GALE.
HORSE CANT-HOOK.



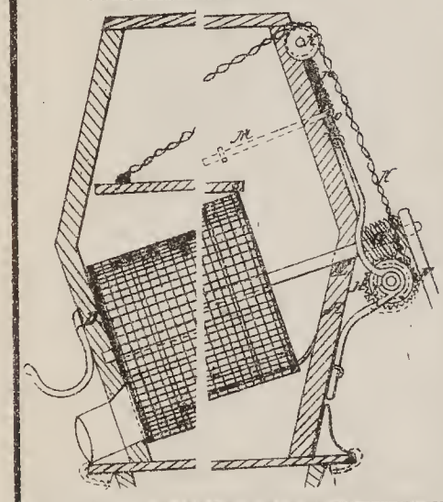
95,676, FRANCIS M. GARDNER.
CLOD-FENDERS.



95,677, S. B. GARDNER.
RAILWAY-CAR-BRAKE SHOE.

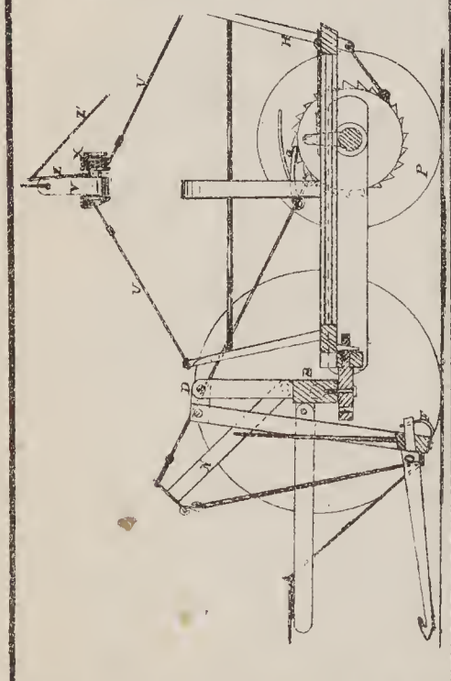


95,678, JOHN L. GRIFFIN.
COAL-ASH SIFTER.

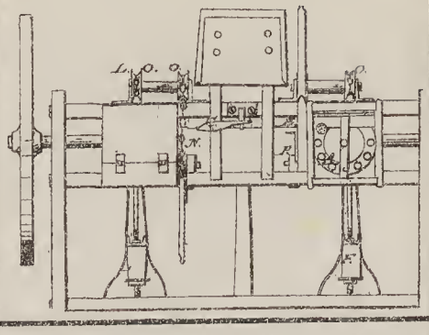


95,679, HIRAM L. GULDIN.
SOAP.

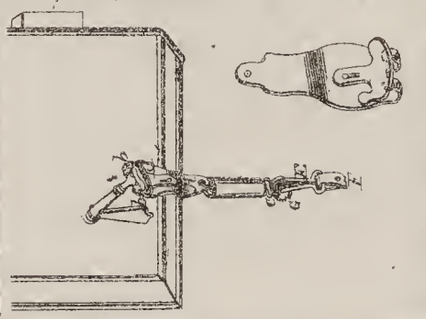
95,680, CHARLES P. HALE.
HAY-LOADERS.



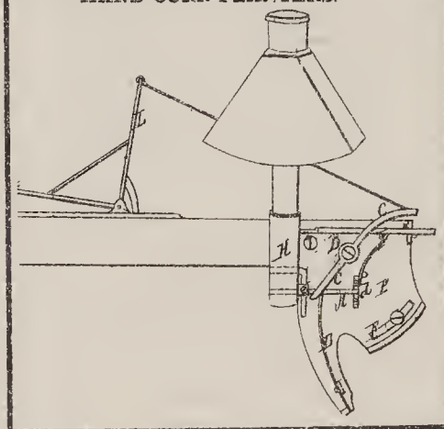
95,681, J. J. HARPEL.
CORN-PLANTERS.



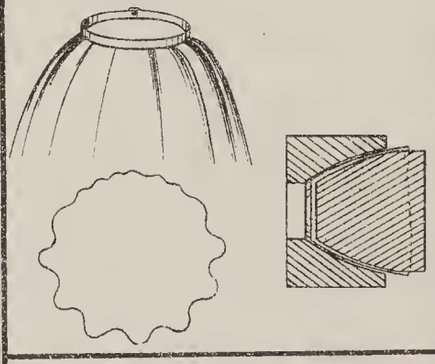
95,682, B. R. HATHAWAY. **KEY-GUARD.**



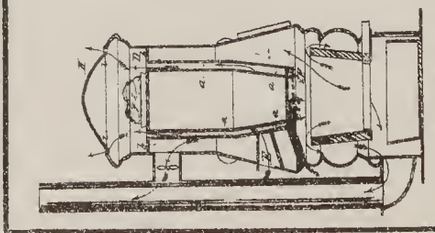
95,683, E. W. HAVEN.
HAND CORN-PLANTERS.



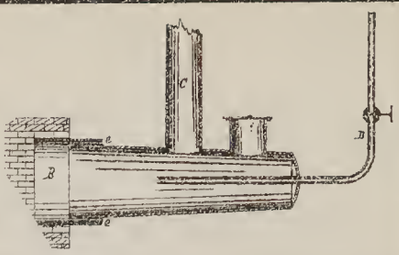
95,684, HY. HAYWARD.
SKIRTS.



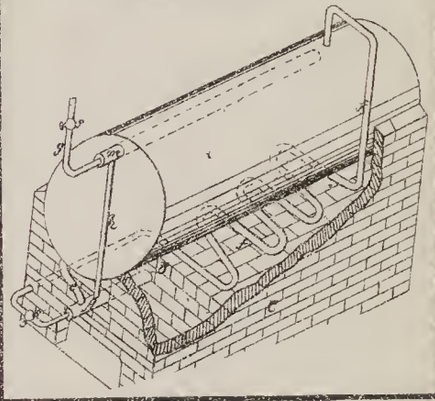
95,685, J. C. HENDERSON.
BASE-BURNING STOVES.



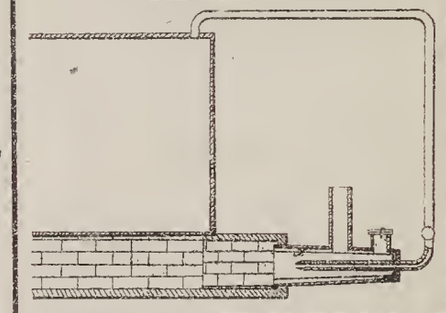
95,686, SAMUEL A. HILL.
CHAS. F. THUMM.
APPARATUS FOR HEATING PUDDLING-FURNACES.



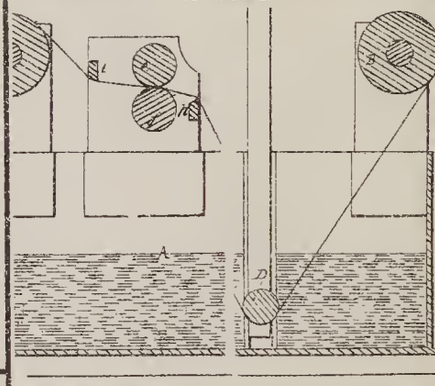
95,687, SAMUEL A. HILL.
CHAS. F. THUMM.
DEVICES FOR GENERATING STEAM IN STEAM-GENERATORS.



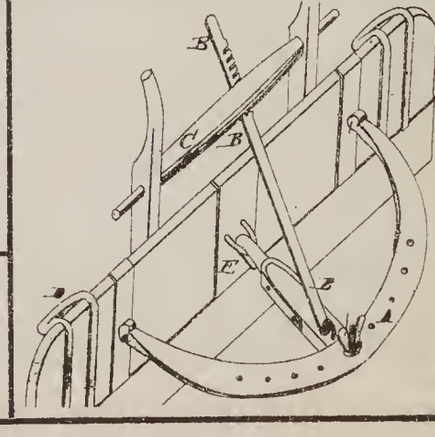
95,688, SAMUEL A. HILL.
CHAS. F. THUMM.
APPARATUS FOR GENERATING STEAM IN BOILERS.



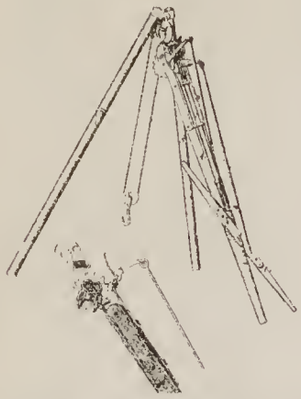
95,689, JAS. HOWARD.
MACHINE FOR TARRING PAPER FOR ROOFING.



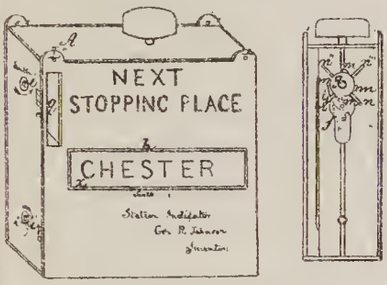
95,690, LYMON HOWE. **ROAD-SCRAPER.**



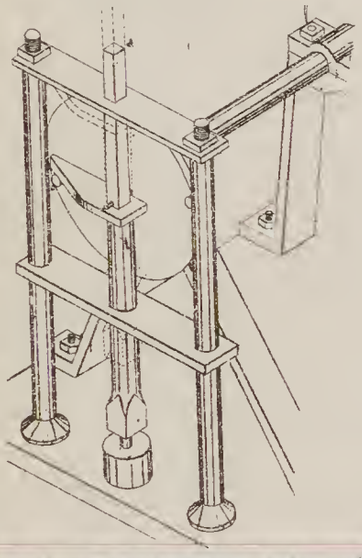
95,691, WM. M. HOWLAND.
GEO. L. HOWLAND.
HOISTING-APPARATUS.



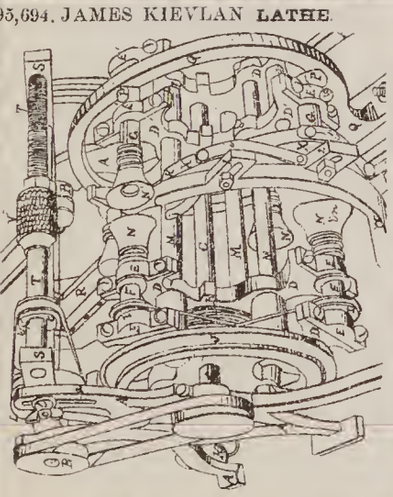
95,692, GEO. R. JOHNSON.
STATION-INDICATORS



95,693, EDWARD KAYLOR.
DROP-HAMMER.



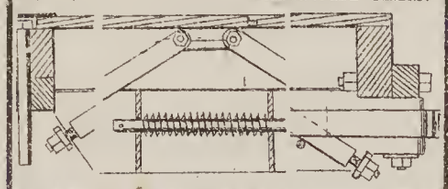
95,694, JAMES KIEVLAN **LATHE.**



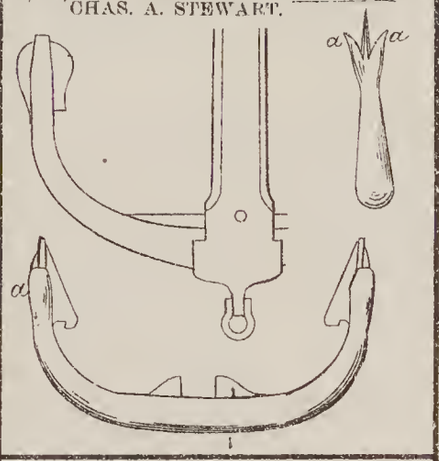
95,695, JOHN KING.
LINIMENT AND MEDICAL COMPOUND.

95,696, EMIL KUNZENDORF.
FIRE-PROOF PAINT.

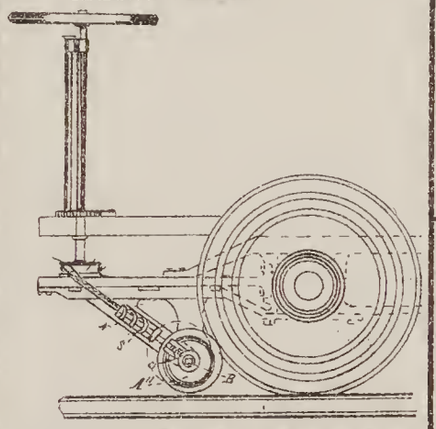
95,697, M. C. LAWLESS. **RAILWAY-CARS.**



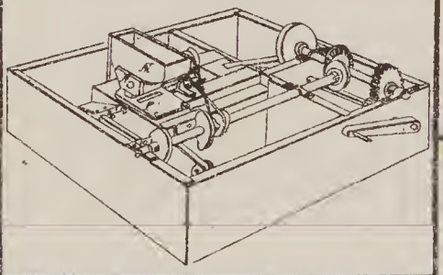
95,698, G. A. LLOYD.
CHAS. A. STEWART. **ANCHORS.**



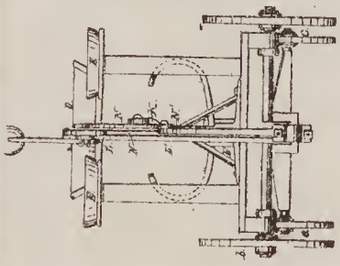
95,699, WILLIAM W. LOOMIS.
RAILWAY-BRAKE.



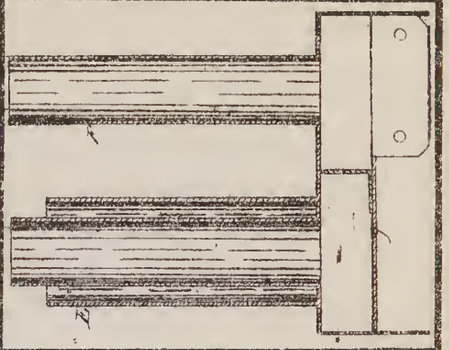
95,700, ELLIS LUTHER.
MACHINE FOR WIRING HINGES.



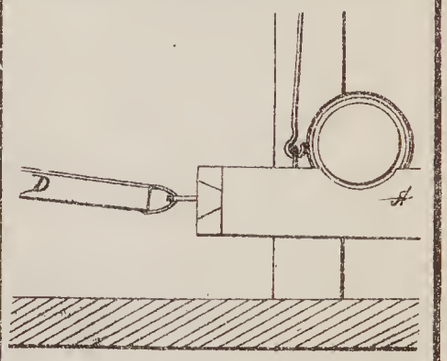
95,701 PETER LUTTEKE.
VEHICLE PROPELLED BY HAND.



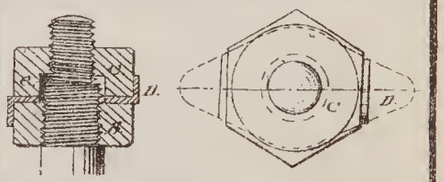
95,702, BENJAMIN F. MANN.
CHIMNEYS.



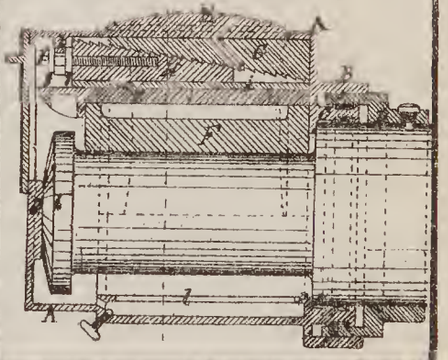
95,703, W. P. MARTIN.
APPARATUS FOR IMPARTING AGE TO WHISKEY AND OTHER SPIRITS.



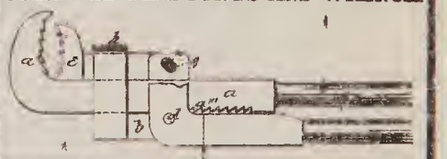
95,704, WILLIAM C. MASON. **LOCK-NUTS.**



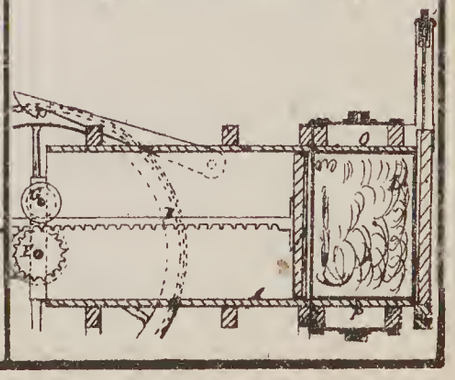
95,705, MARK McCAMMON.
RAILWAY-CAR-AXLE BOX.



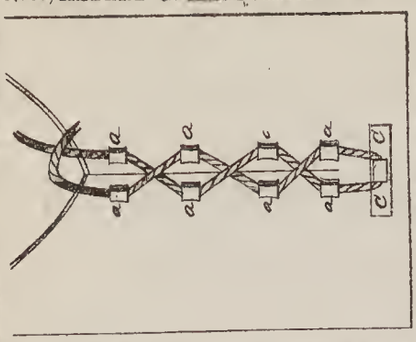
95,706, V. K. McELHENY.
COMBINED PIPE-TONGS AND WRENCH.



95,707, J. A. McGILLIVRAE.
C. O. WHEELER.
HAY AND COTTON-PRESSES.

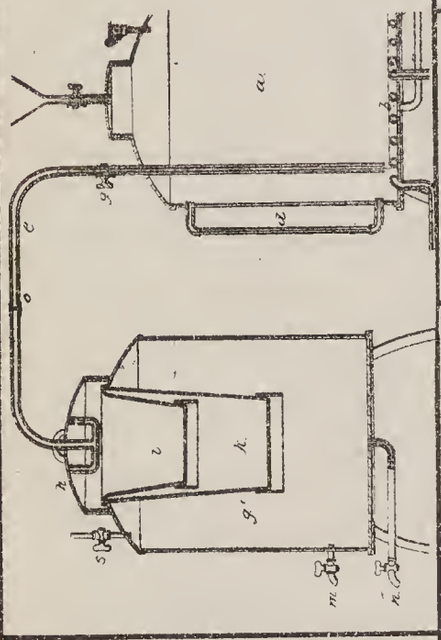


95,708, ALBERT G. MEAD. LACING-EYE.

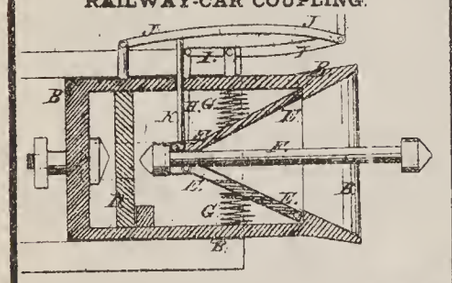


95,709, EMIL F. MEYER.
MODE OF PREPARING ORNAMENTAL TRANSPARENT LETTERS FOR SIGNS, &c.

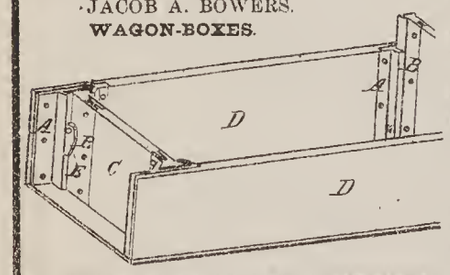
95,710, ELIE MONEUSE.
LOUIS DUPARQUET.
COFFEE-POT.



95,711, JAMES A. MORRISON.
RAILWAY-CAR COUPLING.

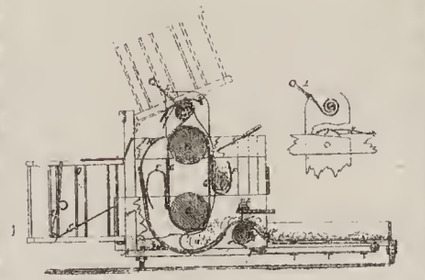


95,712, WM. F. MOORE.
JACOB A. BOWERS.
WAGON-BOXES.



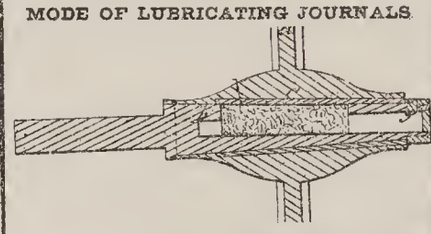
95,713. PORTER C. MOULTON.
NECKTIE-RETAINERS.

95,714, J. H. MUDGETT. GRAIN-BINDERS.

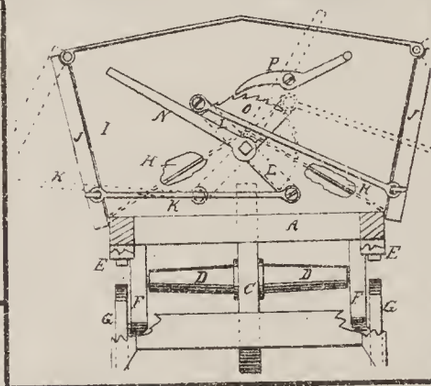


95,715, GEO. H. MUNROE.
PRESERVING MEAT FOR PASTRY-PURPOSES.

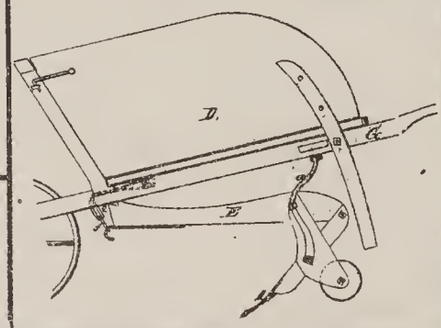
95,716, SAMUEL NASH.
MODE OF LUBRICATING JOURNALS.



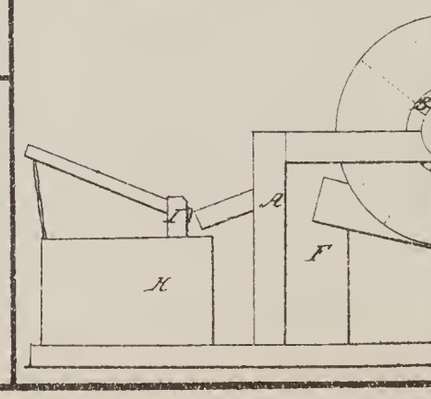
95,717, PETER NOLING. WHEELBARROWS.



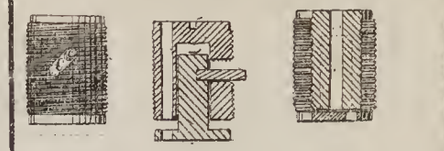
95,718, JOHN D. O'CALLAGHAN.
COMBINED WHEELBARROW AND GARDEN-PLOW.



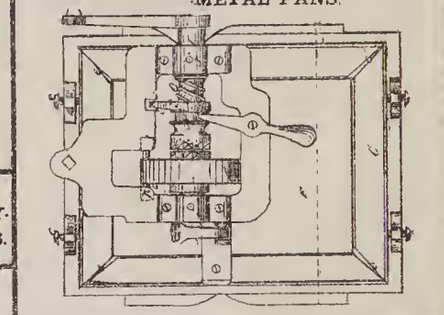
95,719, ALEX. OSBORN.
MILK-COOLERS AND DEODORIZERS.



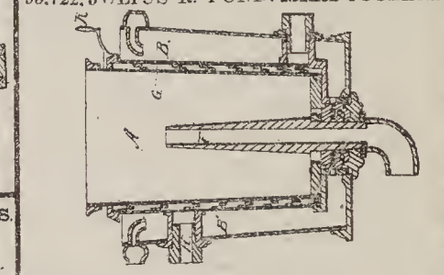
95,720 J. W. PEARSON.
GAS-CHECK FOR ORDNANCE.



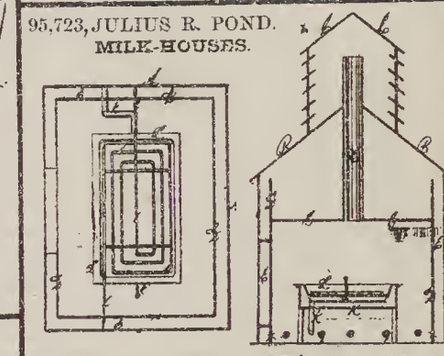
95,721, G. S. PECK.
MACHINES FOR MAKING SHEET-METAL PANS.



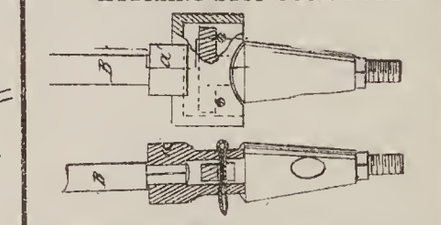
95,722, JULIUS R. POND. MILK-COOLERS.



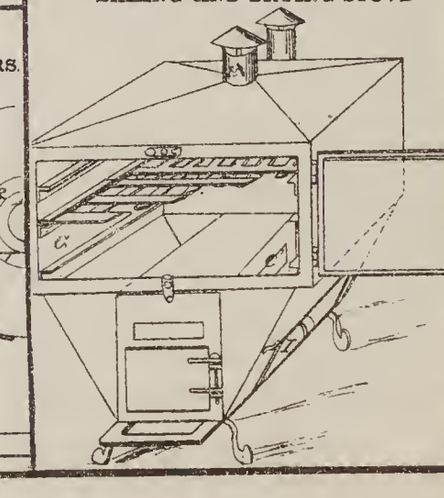
95,723, JULIUS R. POND.
MILK-HOUSES.



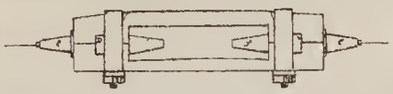
95,724, HENRY RAUSCH.
HYDRANT STOP-COCK RODS.



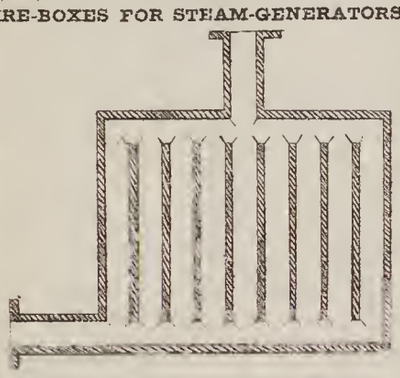
95,725, F. S. REEFY.
S. M. ZENT
BAKING AND DRYING-STOVE



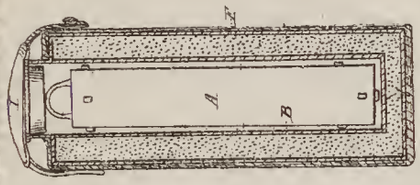
95,726, J. R. RENKIN.
REVERSIBLE AXLE FOR CARRIAGES.



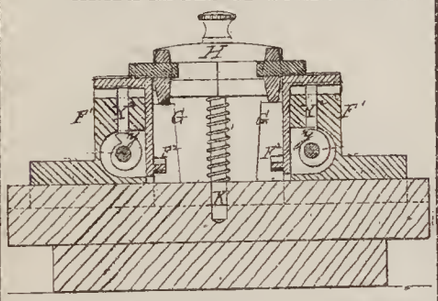
95,727, EDWIN L. ROBBINS.
FIRE-BOXES FOR STEAM-GENERATORS.



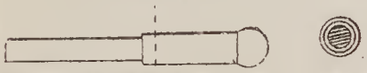
95,728, L. M. ROBY.
FOOT OR BED-WARMER.



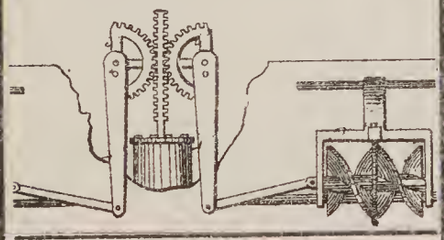
95,729, THOS. J. ROCKWOOD.
MACHINE FOR MILLING THE KNIFE-EDGES OF SCALE-BEAMS.



95,730, WM. H. ROGERS
FRICTION-MATCHES.



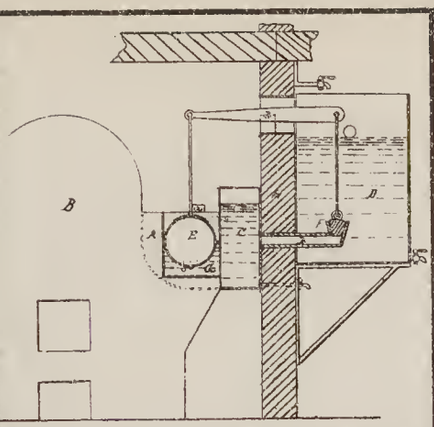
95,731, S. W. ROWELL.
SCREW-PROPELLER.



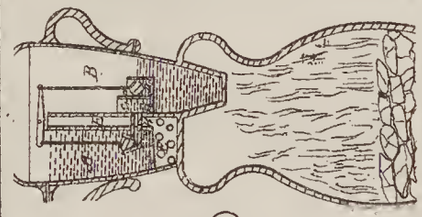
95,732, F. ROYS. METALLIC ROOFING.

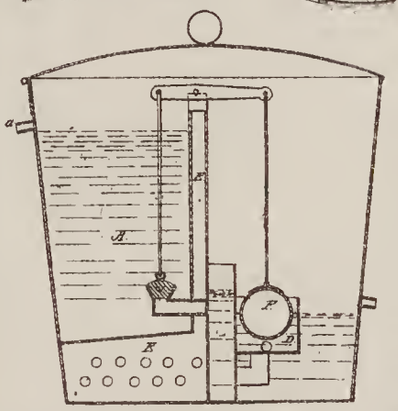
95,733, J. SAXTON.
B. SAXTON.
PROCESS OF PREPARING WOOL FOR MANUFACTURE.

95,734, PH. I. SCHOPP.
HOT-AIR FURNACE

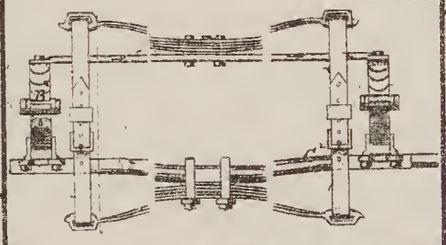


95,735, PH. I. SCHOPP.
BOILER FOR HYDRATING THE ATMOSPHERE OF APARTMENTS.



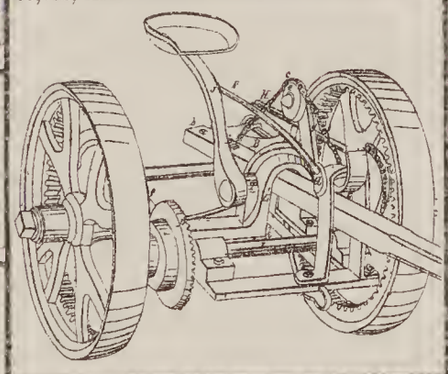


95,736, CHAS. SHEA.
COMPENSATING OR EQUILIBRIUM-SPRING.

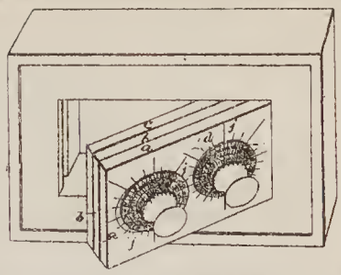


95,737, S. M. SHERMAN WINDOW-BLIND.

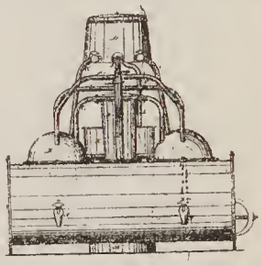
95,738, AMOS SMITH. HARVESTERS.



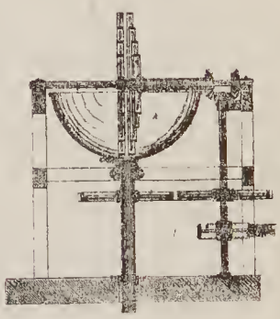
95,739, DANIEL SNELL.
PERMUTATION-LOCKS.



95,740, FRANK SONIER.
DISTILLING-APPARATUS FOR SPIRITS.

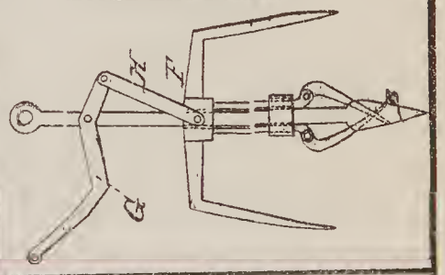


95,741, JOHN STAINTHORP.
MACHINE FOR MIXING SOAP, PAINT, PASTE, AND OTHER SIMILAR MATERIALS.

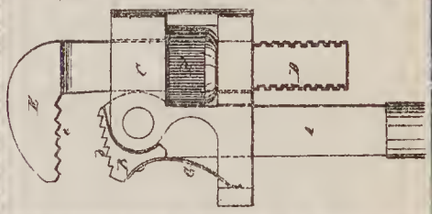


95,742, NEWELL D. STEVENS. PLATE.

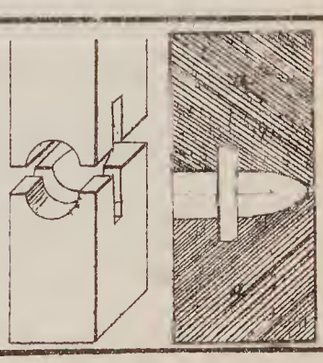
95,743, DAVID P. STEWART.
HORSE HAY-FORKS.



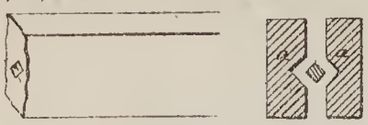
95,744, DANIEL C. STILLSON WRENCH.



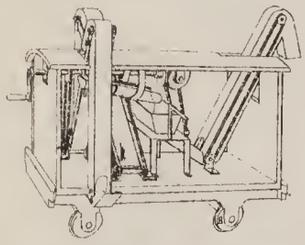
95,745, SAMUEL STONE.
DIE FOR FORMING HORSESHOE-CALKS.



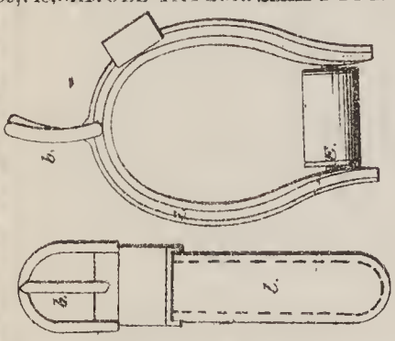
95,746, SAMUEL STONE. METALLIC BAR.



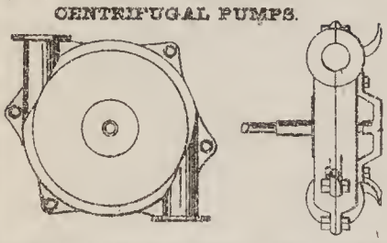
95,747, J. W. SYKES.
RAILROAD GRAIN-TRANSFERRERS.



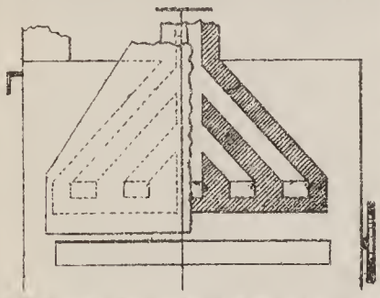
95,748, SAMUEL TAYLOR. SHAFT-TUG.



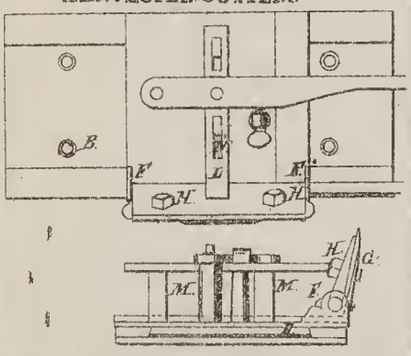
95,749, STEPHEN P. THAYER.
CENTRIFUGAL PUMPS.



95,750, JOHN R. TREADWELL. OVEN.

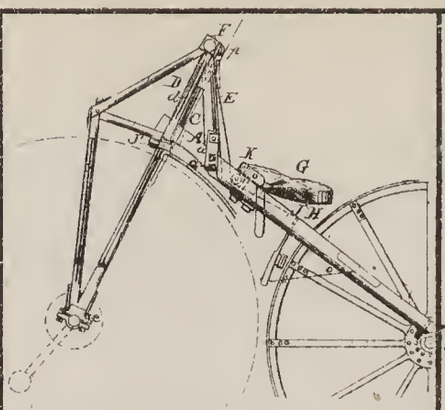


95,751, JOHN WEICHHART.
MACHINES FOR GRINDING
HARVESTER-CUTTERS

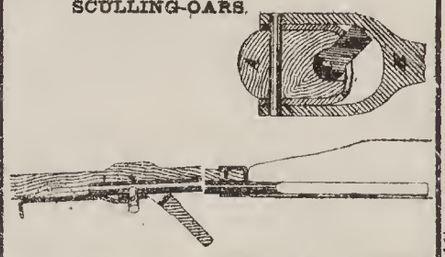


95,752, O. WUTH.
MANUFACTURE OF CRYSTAL GLASS.

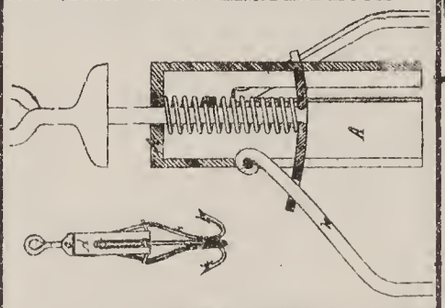
95,753, McCLINTOCK YOUNG.
VELOCIPEDES.



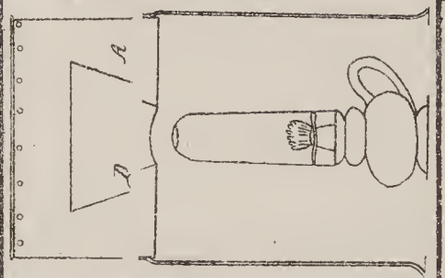
95,754, FRED. T. ANGERS.
SCULLING-OARS.



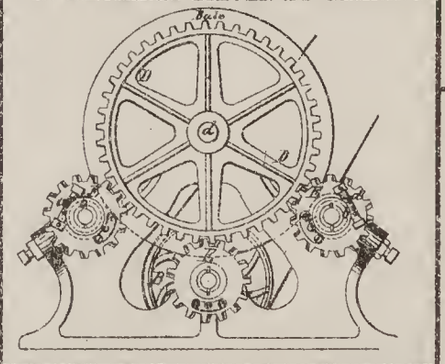
95,755, FRED. T. ANGERS. FISH-HOOK.



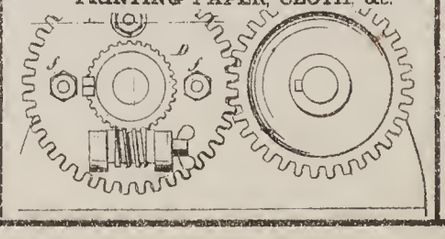
95,756, JOHN ARMSTRONG.
HEATING-APPARATUS.



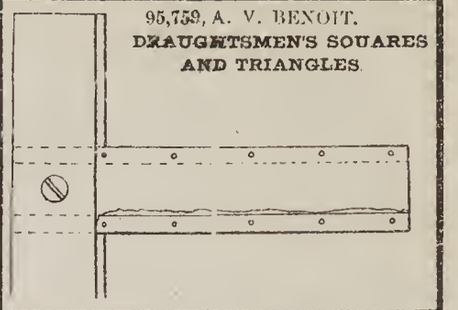
95,757, GEO. H. BABCOCK.
JOS. P. MANTON.
JONATHAN BOYD.
MEANS FOR PREVENTING BACKLASH
IN MACHINES DRIVEN BY GEARING.



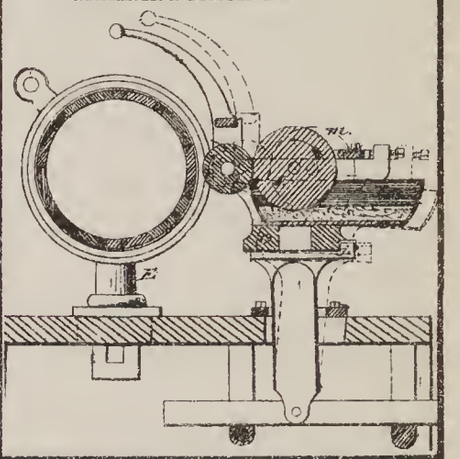
95,758, GEO. S. BARTON. MACHINES FOR
PRINTING PAPER, CLOTH, &c.



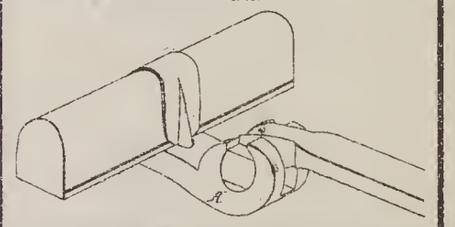
95,759, A. V. BENOIT.
DRAUGHTSMEN'S SQUARES
AND TRIANGLES.



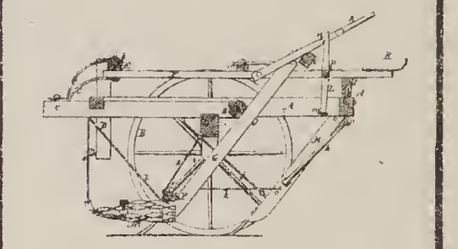
95,760, WM. H. BERGER.
GRAINING-MACHINE.



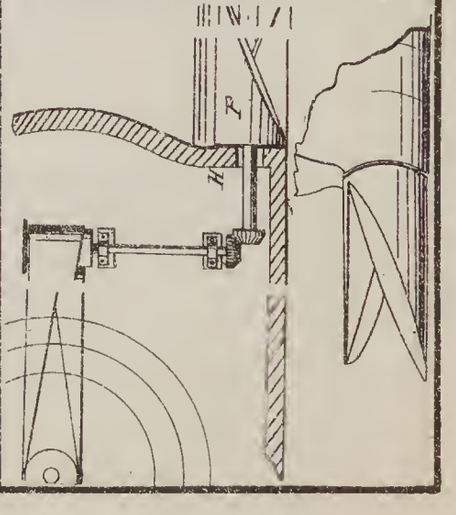
95,761, ALFRED BIXBY.
CARRIAGE-CLIPS.



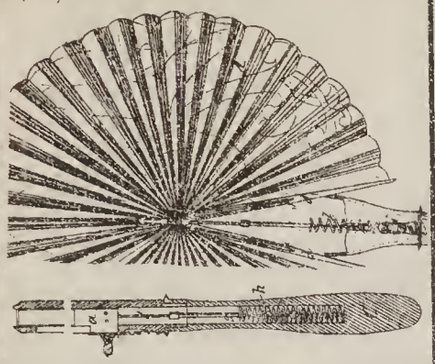
95,762, JEREMIAH BOHAN.
CULTIVATORS.



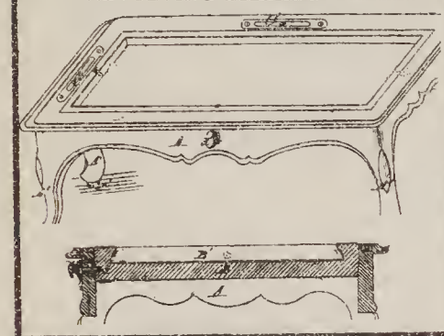
95,763, D. BOOKWALTER.
REVOLVING PROW FOR VESSELS.



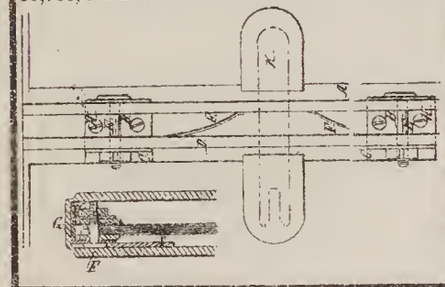
95,764, OTTO BRÜCK. FANS.



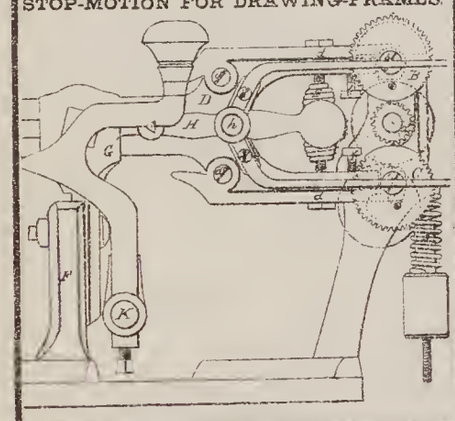
95,765, SOLOMON BRUNSWICK. REVOLVING BILLIARD-TABLES.



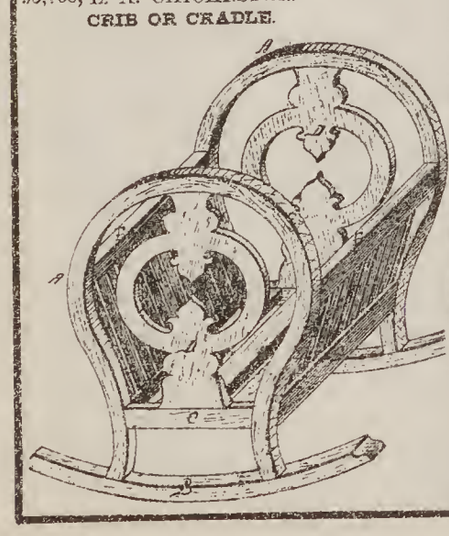
95,766, HUBERT BURGESS. PAPER-FILES.



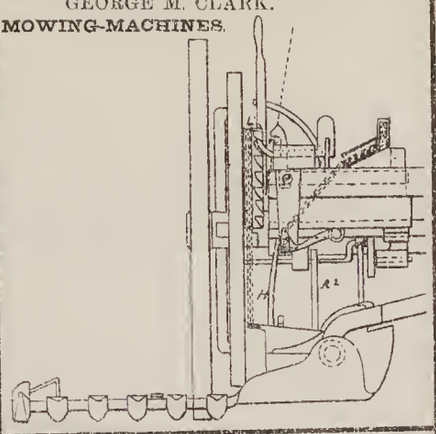
95,767, J. S. CASEY. STOP-MOTION FOR DRAWING-FRAMES.



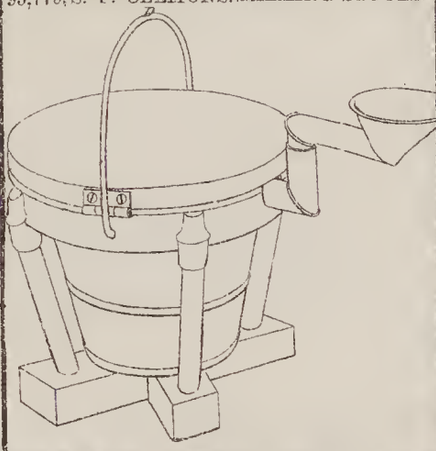
95,768, L. A. CHICHESTER. CRIB OR CRADLE.



95,769, THOMAS J. CLARK. GEORGE M. CLARK. MOWING-MACHINES.

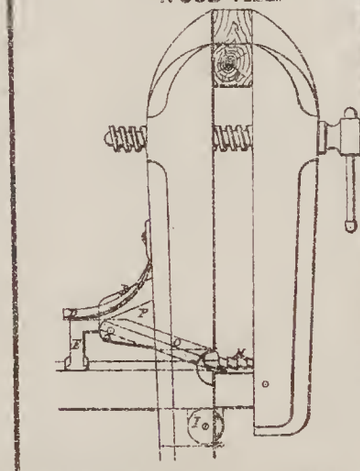


95,770, S. P. CLEMONS. MILKING-STOOLS.

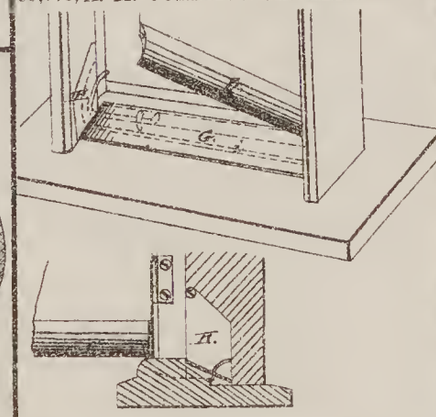


95,771, GEORGE CONROY. MEDICINE FOR RHEUMATISM.

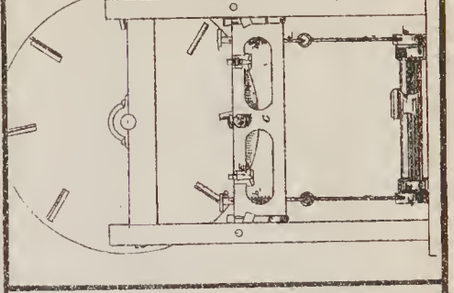
95,772, ROSWELL F. COOK. JOHN FOBES POST. WOOD-VISE.



95,773, A. M. CORBIT. WEATHER-STRIP.

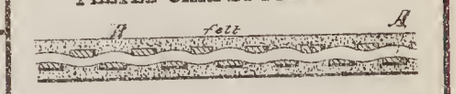


95,774, H. A. CROSSLEY. STAVE-JOINTER.

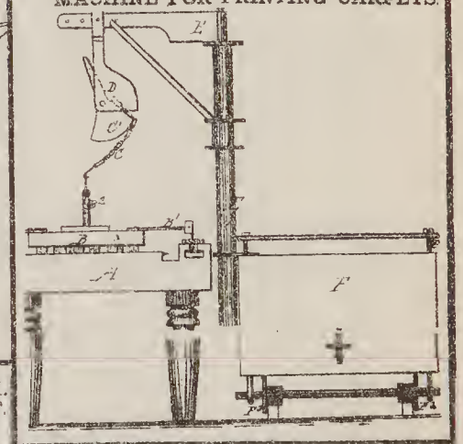


95,775, THOMAS CROSSLEY. CARPETS.

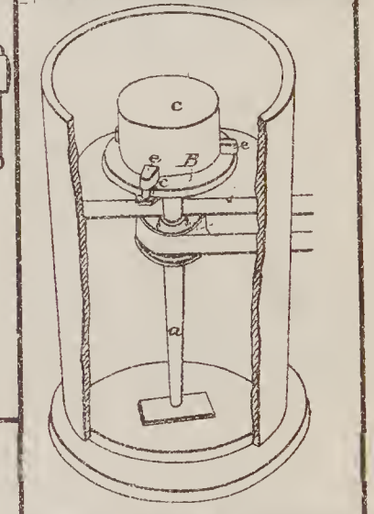
95,776, THOMAS CROSSLEY. FELTED CARPET-FABRIC.



95,777, THOMAS CROSSLEY. MACHINE FOR PRINTING CARPETS.

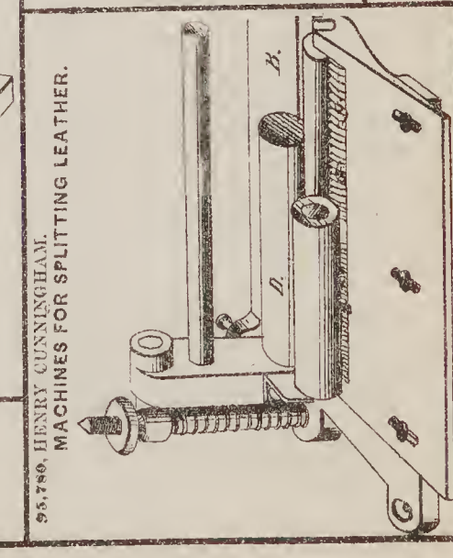


95,778, HENRY CUNNINGHAM. GRINDING CURRIERS' KNIVES.

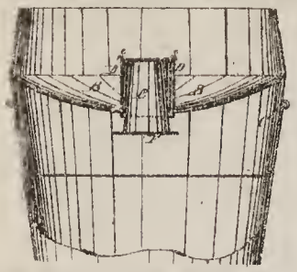


95,779, HENRY CUNNINGHAM. MODE OF SOFTENING LEATHER.

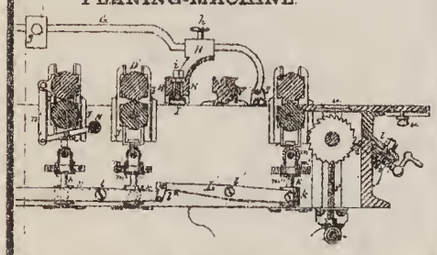
95,780, HENRY CUNNINGHAM. MACHINES FOR SPLITTING LEATHER.



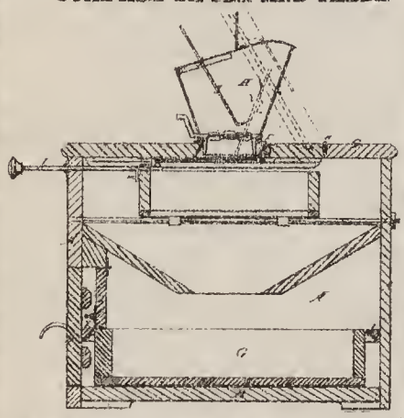
95,781, DANIEL S. CURTISS.
MILK-PAILS AND STRAINERS.



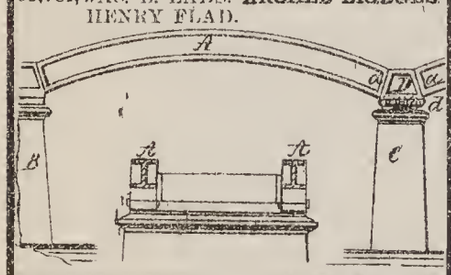
95,782, FRANK DOUGLAS.
PLANING-MACHINE.



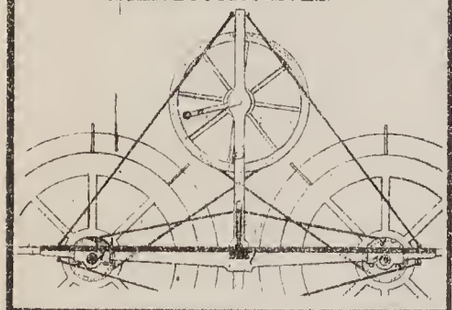
95,783, P. J. DWYER.
COAL-ASH SIFTER AND TABLE.



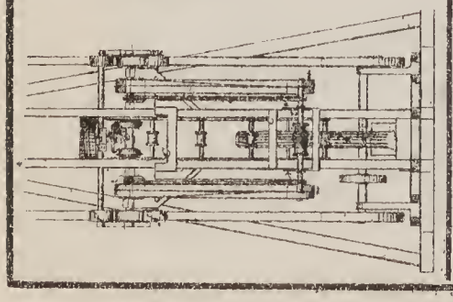
95,784, JAS. B. EADS. ARCHED BRIDGES.
HENRY FLAD.



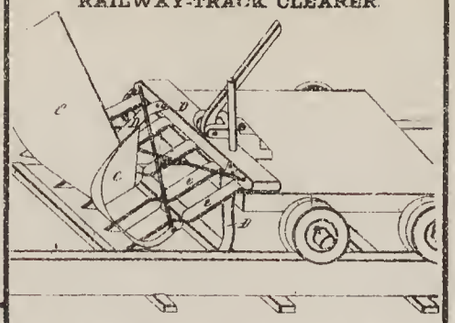
95,785, GEORGE A. FALL.
WATER-LOCOMOTIVES.



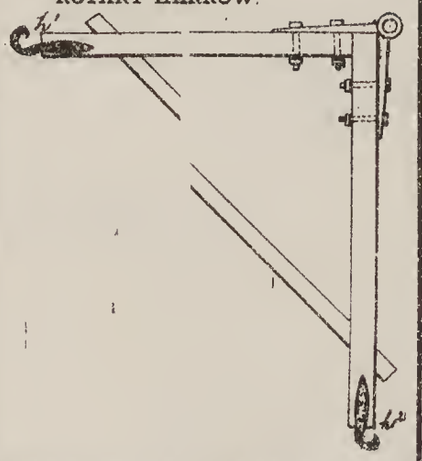
95,786, HENRY FLAD.
PILE-DRIVER.



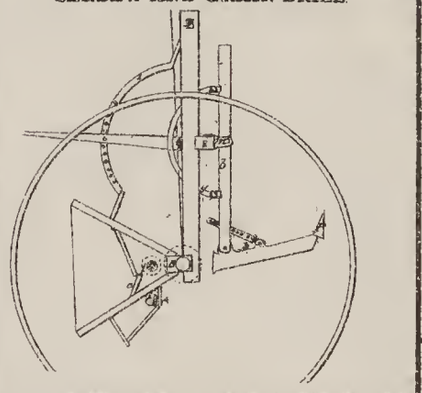
95,787, GEORGE FOWLER.
RAILWAY-TRACK CLEARER.



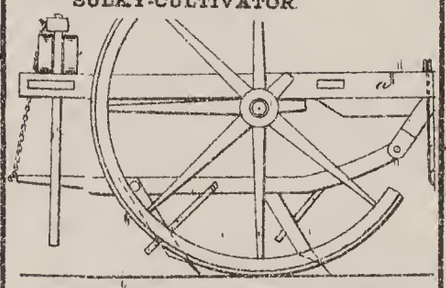
95,788, HENRY A. GASTON.
ROTARY HARROW.



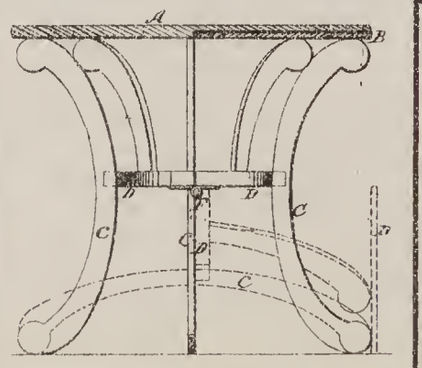
95,789, HENRY A. GASTON.
SEEDER AND GRAIN-DRILL.



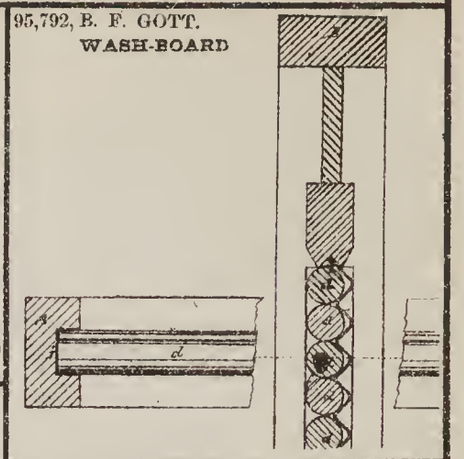
95,790, OSCAR L. GAYLORD.
SULKY-CULTIVATOR.



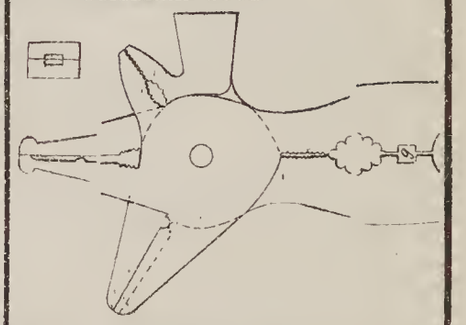
95,791, E. A. GOODES.
TABLE AND CRADLE COMBINED.



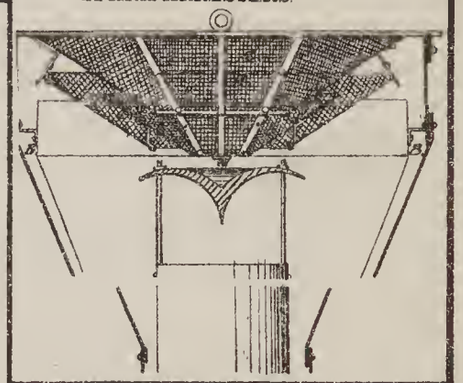
95,792, B. F. GOTT.
WASH-BOARD.



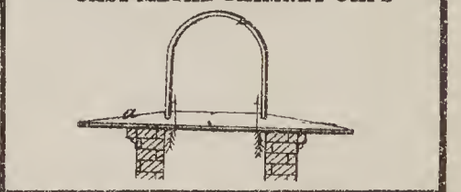
95,793, EMILE GRANIER.
COMBINED TOOL.



95,794 I. H. GRAVES.
SPARK-ARRESTERS.

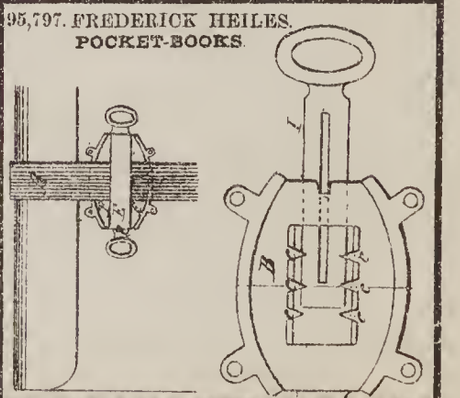


95,795, WILLIAM GREEN.
CAST-METAL CHIMNEY-CAPS.

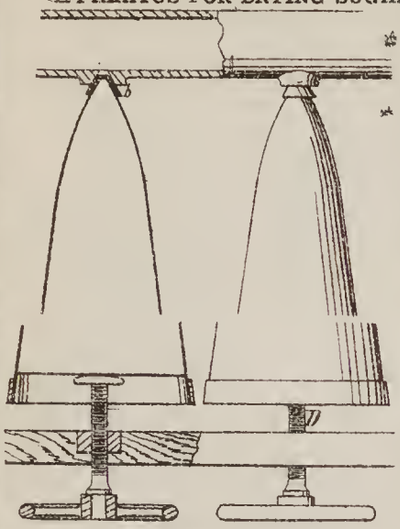


95,796, J. H. GUEST.
ELECTRICAL FIRE-ALARM THERMOMETERS.

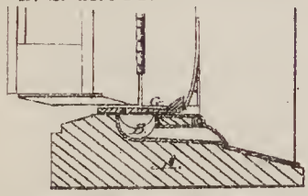
95,797. FREDERICK HEILES.
POCKET-BOOKS.



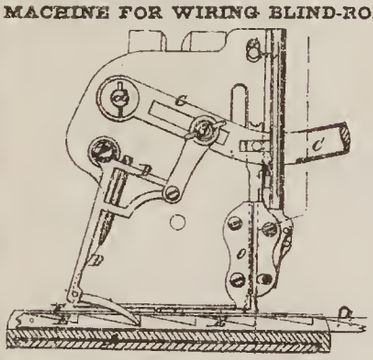
95,798, ALEXANDER HERBST.
APPARATUS FOR DRYING SUGAR.



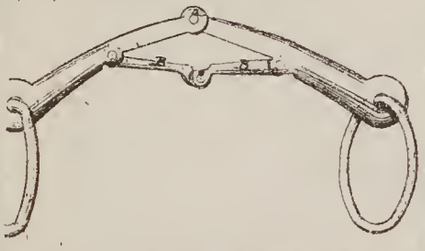
95,799, D. HITCHCOCK **DOOR-SILL.**
D. S. TROUT.



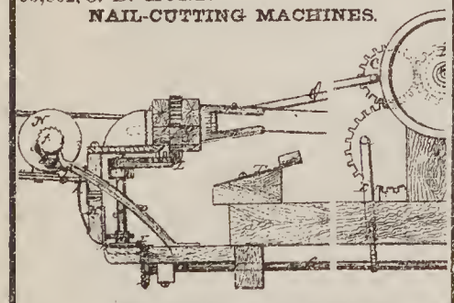
95,800, JOHN HOLZBERGER.
MACHINE FOR WIRING BLIND-RODS.



95,801, C. M. HUCKINS. **BRIDLE-BIT.**

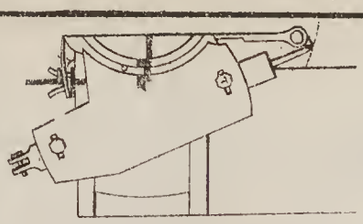


95,802, C. D. HUNT.
NAIL-CUTTING MACHINES.

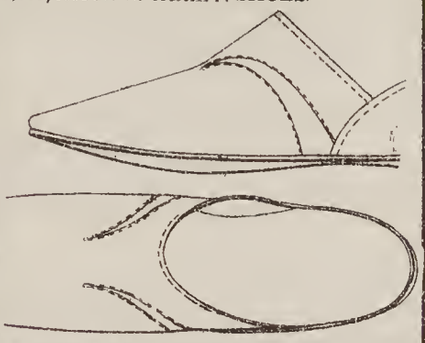


95,803, W. A. IVES. **AUGER.**

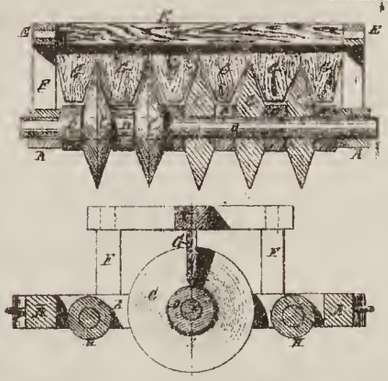
95,804, JAMES JERVIS.
FILE-CUTTING MACHINE



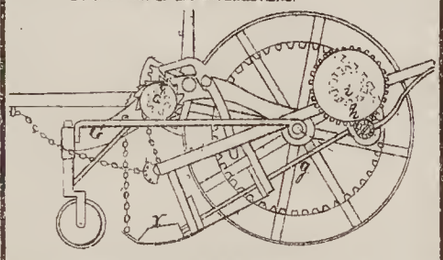
95,805, AMOS S. KELLY. **SHOES.**



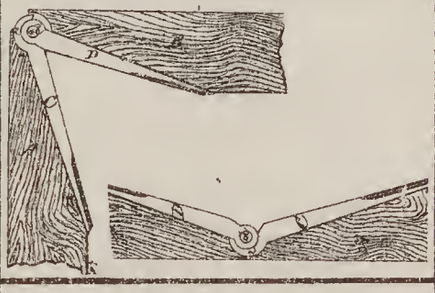
95,806, JOHN S. KELLY. **PEAT-MACHINES.**



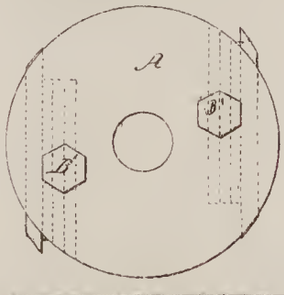
95,807, WM. G. KENYON.
MOWING-MACHINES.



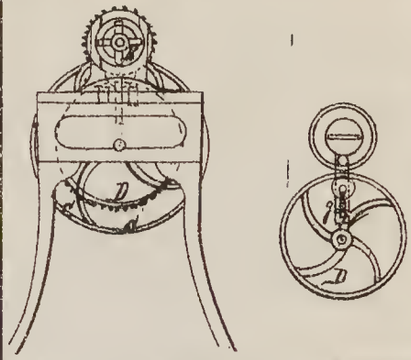
95,808, HENRY KILLAM.
HINGE FOR CARRIAGE-TOPS.



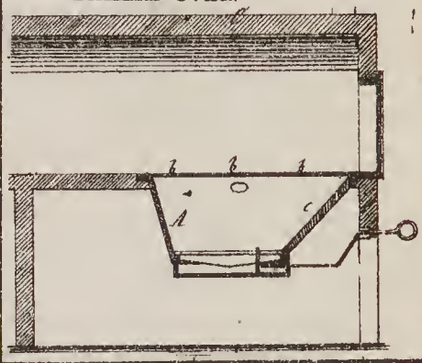
95,809, JEFFERSON KINDLEBERGER.
WILLIAM AUGUSTUS ARNOLD.
CUTTER-HEAD.



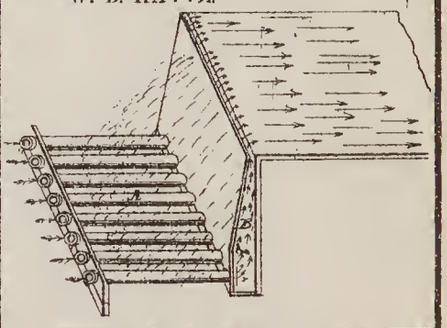
95,810 JEFFERSON KINDLEBERGER.
WILLIAM AUGUSTUS ARNOLD.
MACHINE FOR TENONING BLIND-SLATS.



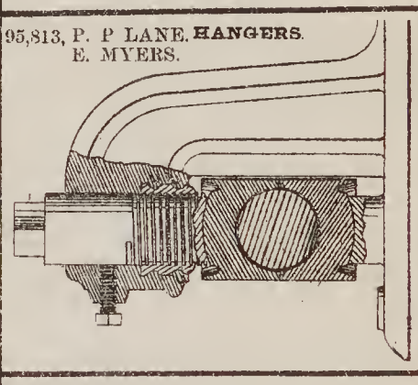
95,811, JULIUS GUSTAV KLUGE.
BAKERS' OVEN.



95,812, L. F. LAKEY. **GRATE-BAR.**
W. B. HAYTE.

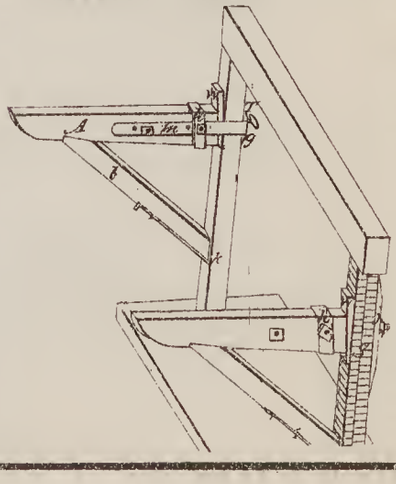


95,813, P. P LANE. **HANGERS.**
E. MYERS.

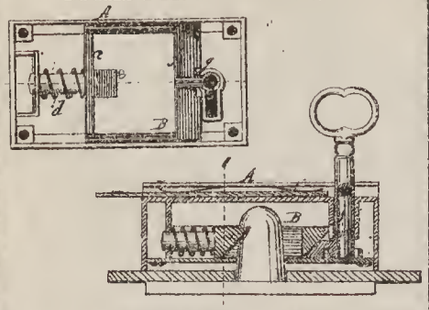


95,814 SUSPENDED.

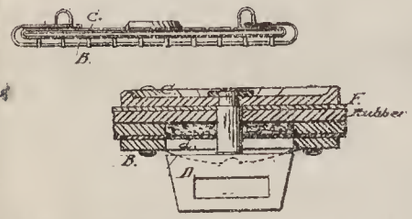
95,815. NOAH LOVELL.
SCAFFOLD-BRACKET.



95,816, R. O. LOWREY.
LOCKS FOR MAIL-BAGS, &c.

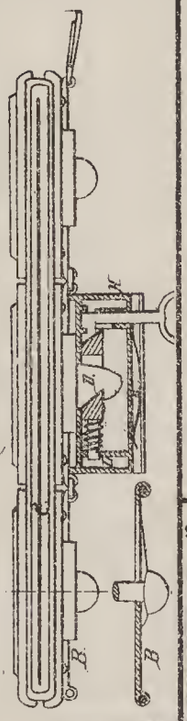


95,817, R. O. LOWREY. MAIL-BAGS.

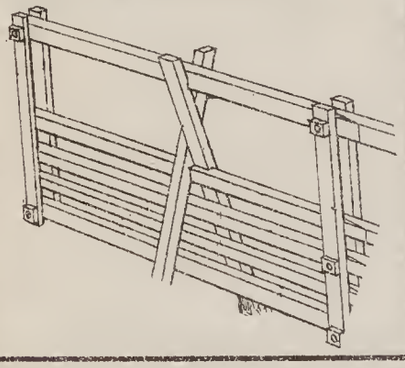


95,819,
WM. W. LYMAN.
FRUIT-JARS.

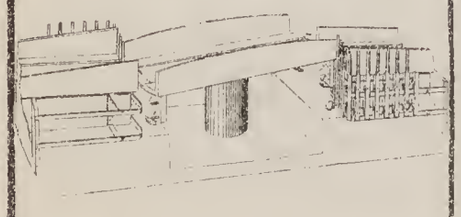
95,818, R. O. LOWREY. MAIL-BAG FASTENERS.



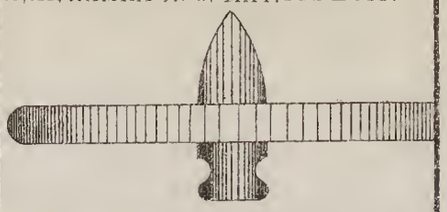
95,820, JOHN MARKLEY. FENCES.



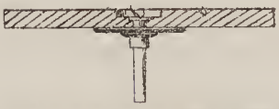
95,821, GORDON ALLEN MAY.
GATE FOR DRAW-BRIDGES



95,822, HAMILTON J. MAY. TOY-HOOP.

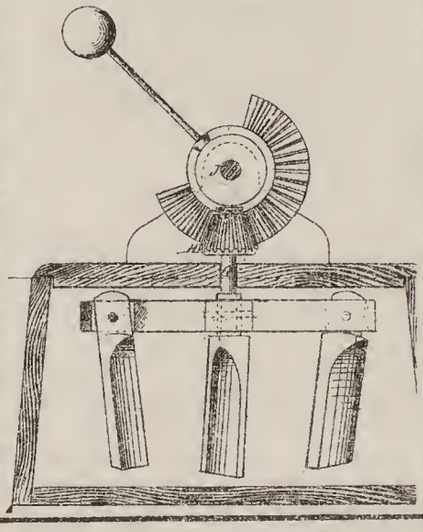


95,823, JOHN K. MERRICK.
DENTISTS' GRINDING AND POLISHING-WHEEL.

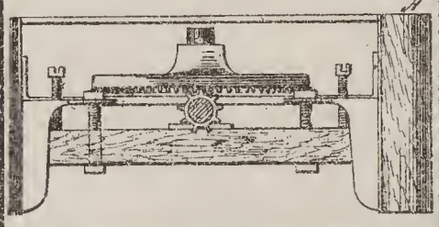


95,824, E. C. MERRILL.
A. W. WILLARD.
COMPOSITION FOR EMERY-WHEELS AND OTHER ABRADING-IMPLEMENTS.

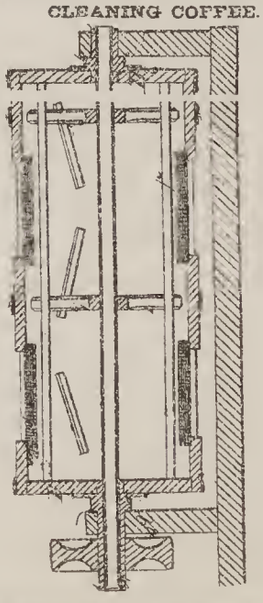
95,825, JOHN S. MOORE, JR.
CHAS. H. REYNOLDS.
WASHING-MACHINE.



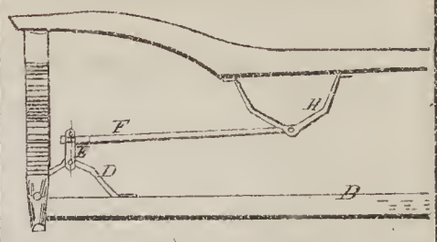
95,826, GEO. W. MOYERS. HORSE-POWER.



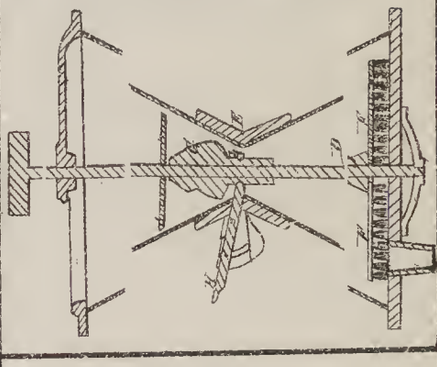
95,827, WILLIAM NEWELL.
MACHINES FOR POLISHING AND CLEANING COFFEE.



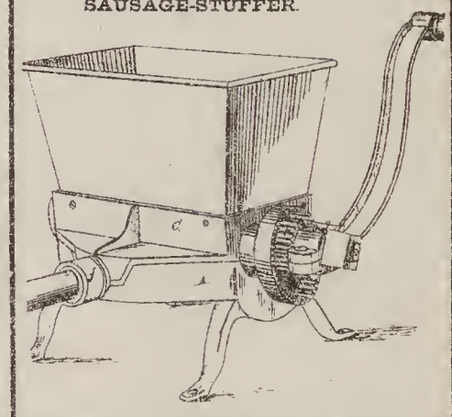
95,828, J. H. ORMSBY.
CARRIAGE-BODY BRACES.



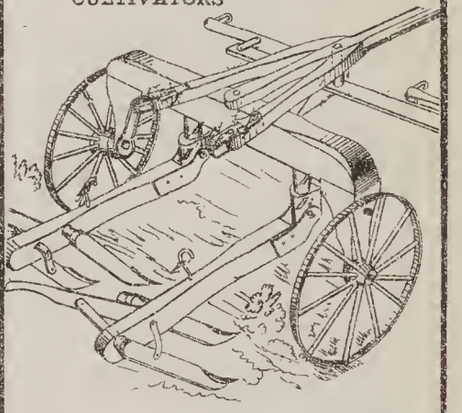
95,829, GEORGE PARKER.
FEED FOR GRINDING-MILLS.



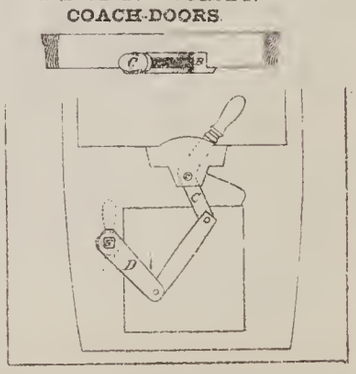
95,830, THOMAS PARKER.
SAUSAGE-STUFFER.



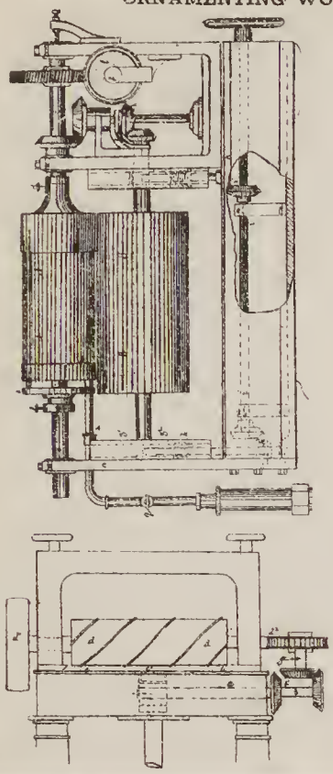
95,831, JOHN C. PEARL.
CULTIVATORS



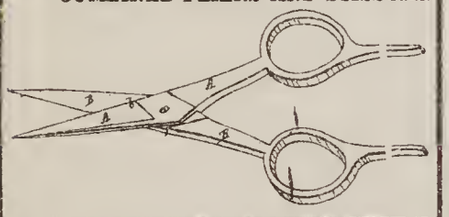
95,832, JAMES PENFIELD.
DAVID F. WOOLSEY.
COACH-DOORS.



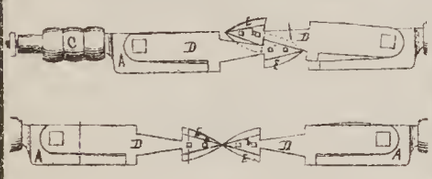
95,833, THOMAS THOMPSON PONSONBY.
MACHINE FOR SURFACING AND ORNAMENTING WOOD.



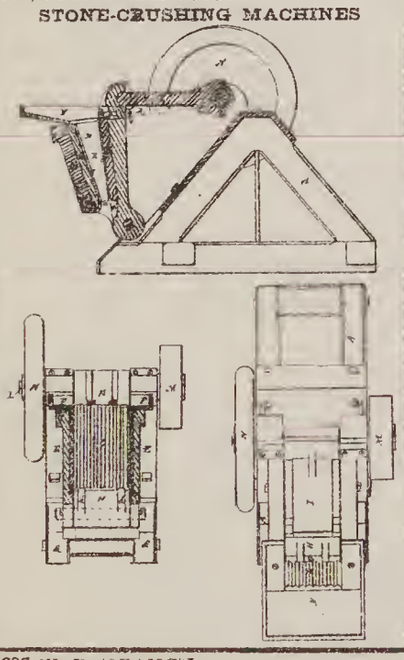
95,834, JOHN H. PRICE.
COMBINED PLIERS AND SCISSORS.



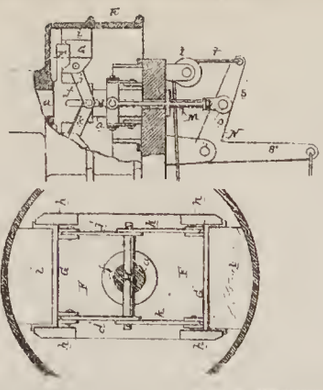
95,835, WALKER V. PULLIAM.
RAILWAY-CAR COUPLING.



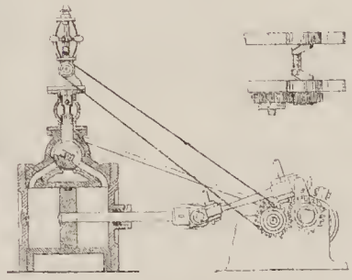
95,836, GEO. W. RAWSON.
STONE-CRUSHING MACHINES



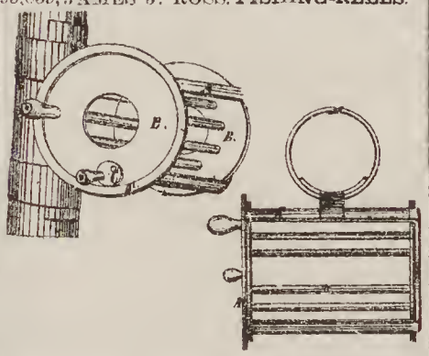
95,837, W. B. PEANEY.
HOISTING-APPARATUS.



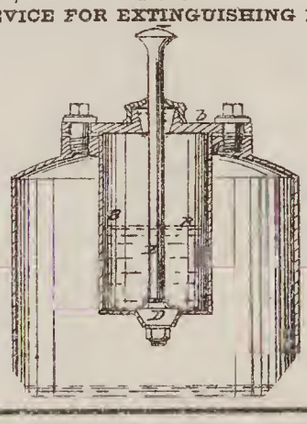
95,838, JOHN B. ROOT.
CUT-OFF GEAR FOR STEAM-ENGINES.



95,839, JAMES J. ROSS. FISHING-REELS.



95,840, ENNO SANDER.
DEVICE FOR EXTINGUISHING FIRES.



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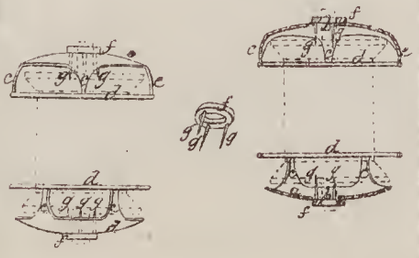
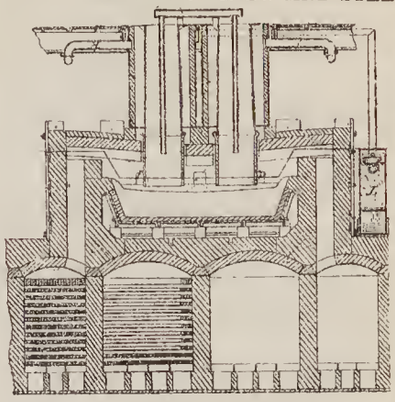
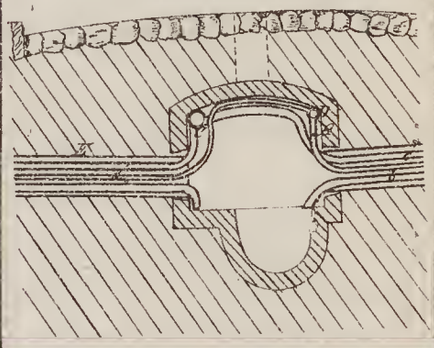
95,842, THEO. O. L. SCHRADER.
SPOOL AND THREAD-PROTECTORS.



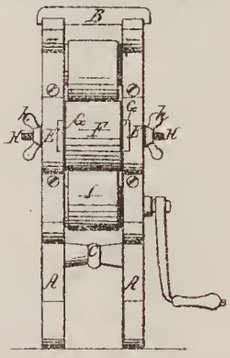
95,843, C. W. SIEMENS.
MANUFACTURE OF IRON AND STEEL



95,844, JNO. SILSBY.
HOUSE-CONNECTION FOR SEWER, WATER, AND GAS-PIPES.



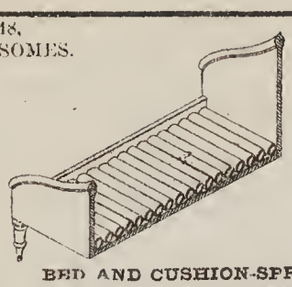
95,845, GEO. E. SMITH.
HOOP-BENDING MACHINE.



95,846, S. A. SMITH.
COMBINED BIT AND TAP.

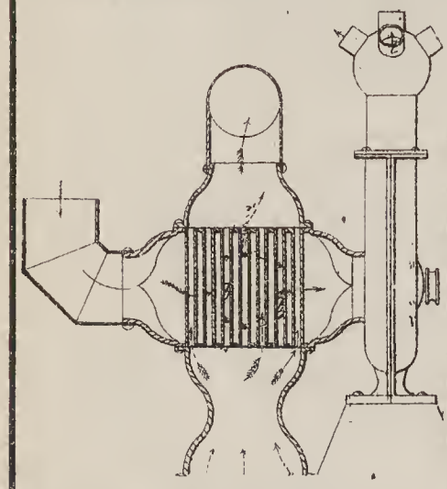
95,847, DANIEL McL. SOMERS.
SECURING BUTTONS TO FABRICS.

95,848,
D. E. SOMES.

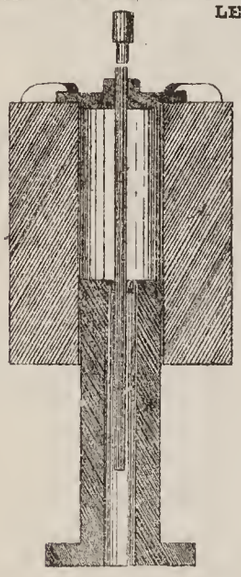


BED AND CUSHION-SPRING.

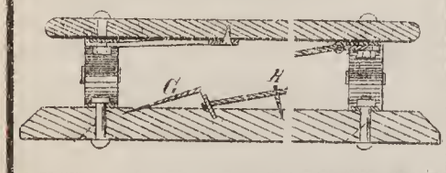
95,849, B. F. STURTEVANT.
APPARATUS FOR UTILIZING HEAT.



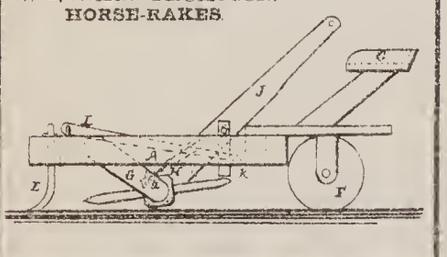
95,850, BENJN TATHAM.
DIES FOR MANUFACTURING LEAD PIPE.



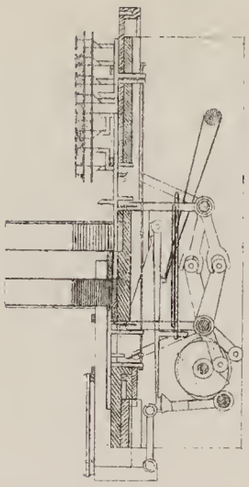
95,851, JACOB TAYLOR.
CARRIAGE-BODY BRACES.



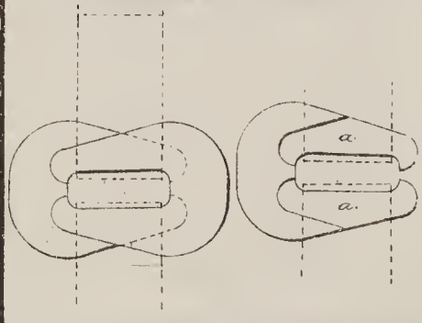
95,852, JAMES THOMPSON.
HORSE-RAKES.



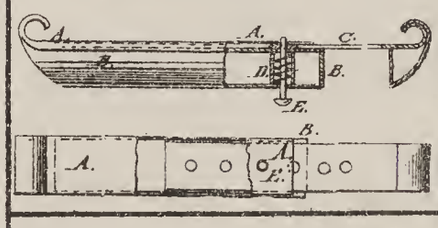
95,853, JOSEPH THORNE.
TYPE-SETTING MACHINES



95,854, MATTHEW TILDESLEY.
COTTON-BALE FASTENING.

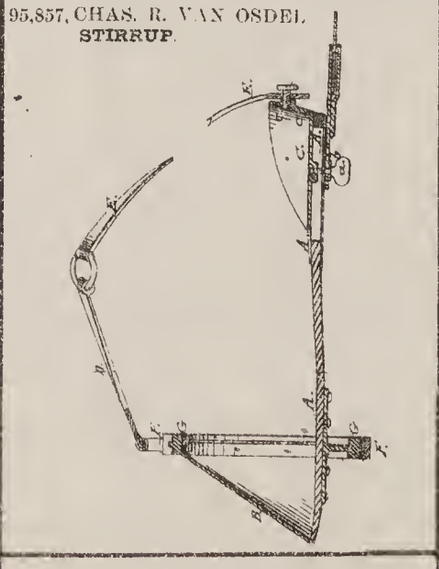


95,855, A. J. TOMPKINS.
J. M. WEGAND.
HAMES-FASTENER.



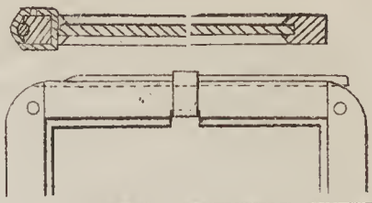
95,856, E. W. VAILL. FOLDING CHAIR.

95,857, CHAS. R. VAN OSDEL
STIRRUP.

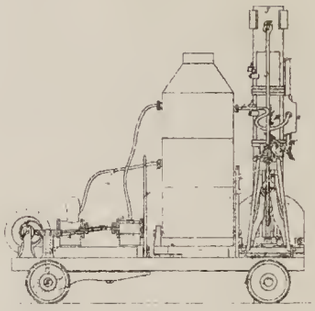


95,858, LOUIS WALTHER.
MEDICATED CIGAR.

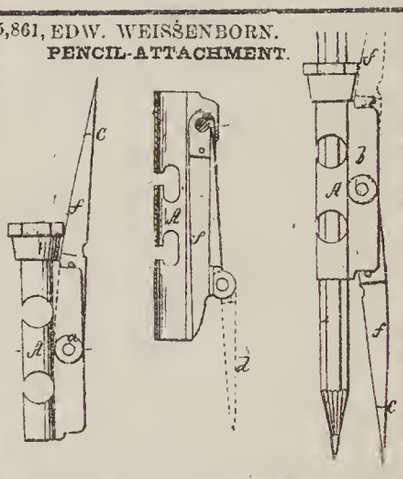
95,859, EDWD. G. WARD.
SLATE-PENCIL HOLDERS.



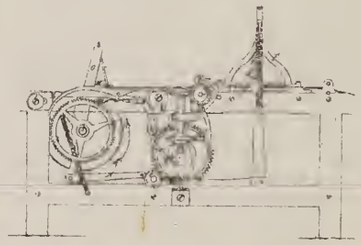
95,860, GEO. J. WARDWELL.
STONE-CHANNELLING MACHINE.



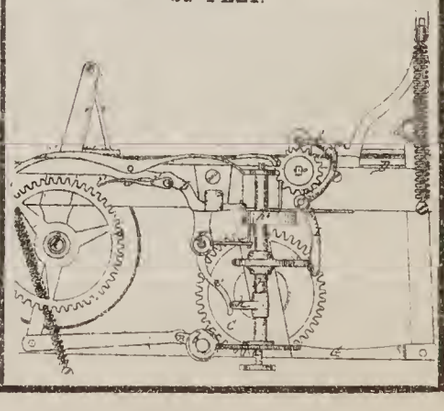
95,861, EDW. WEISSENBORN.
PENCIL-ATTACHMENT.



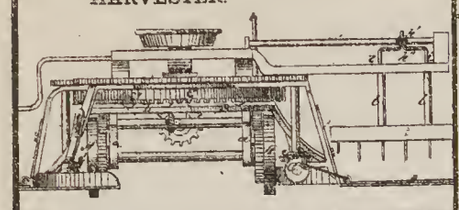
95,862, MILTON D. WHIPPLE.
MACHINERY FOR THE MANUFACTURE OF FELT.



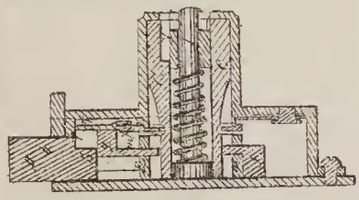
95,863, MILTON D. WHIPPLE.
MACHINE FOR THE MANUFACTURE OF FELT.



95,864. RICHD. M. WILLIAMS.
HARVESTER.

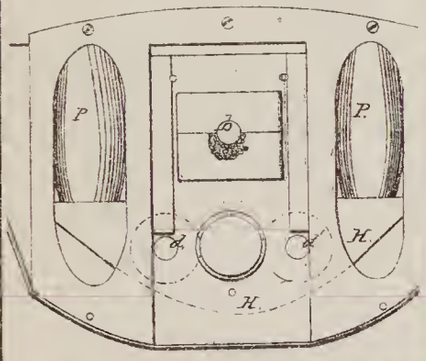


95,865. SILAS N. BROOKS. LOCKS.

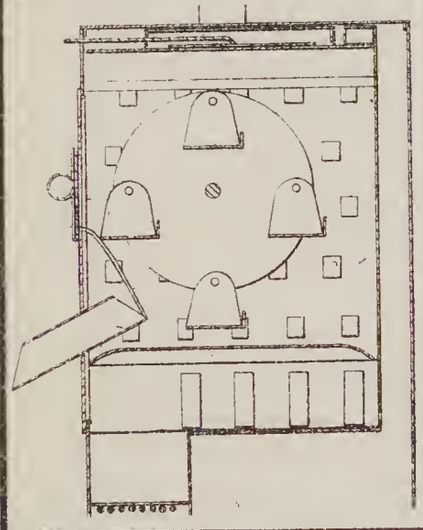


95,866, HUGH YOUNG. CARBON-TOOL
JAMES L. YOUNG.

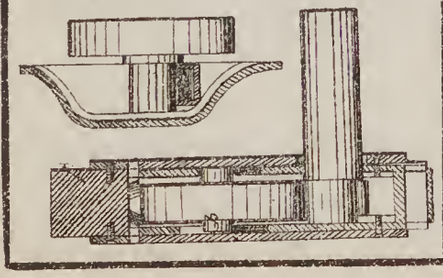
95,867, LOUIS BRAUER.
CAR-AXLE BEARING



3,666, HOSEA BALL. OVEN.

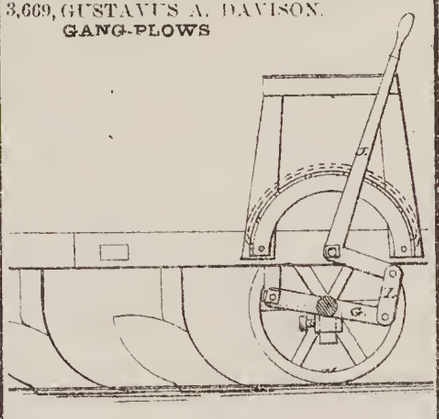


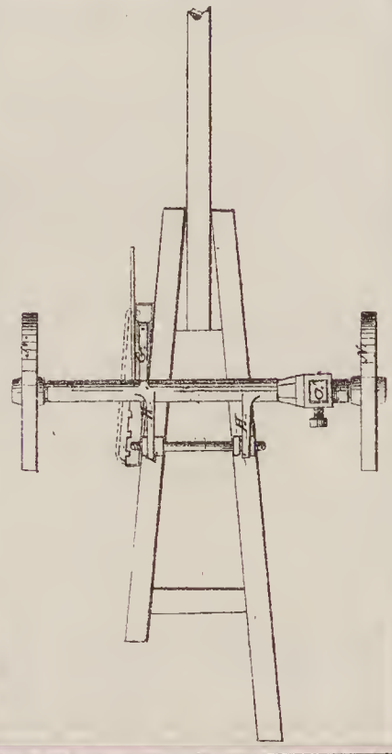
3,667, E. D. BRAINARD.
IMPROVED METHOD OF PRESERVING THE AROMATIC PRINCIPLE OF HOPS.



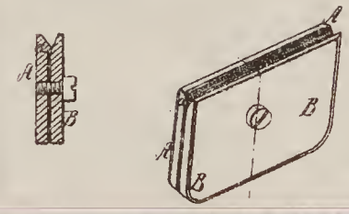
3,668, W. T. BUSH.
MANUFACTURE OF SOAP.

3,669, GUSTAVUS A. DAVISON.
GANG-PLOWS

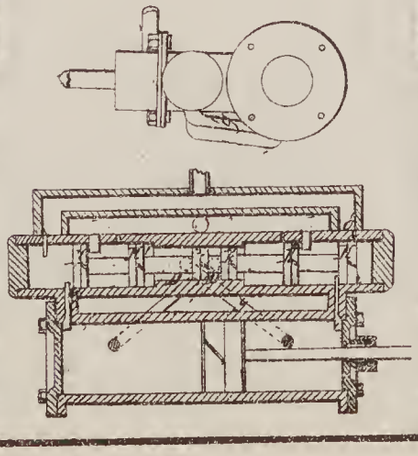




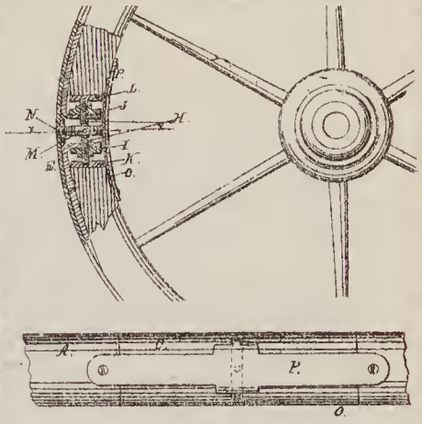
3,670, A. S. DINSMORE.
NEEDLE-SHARPENER



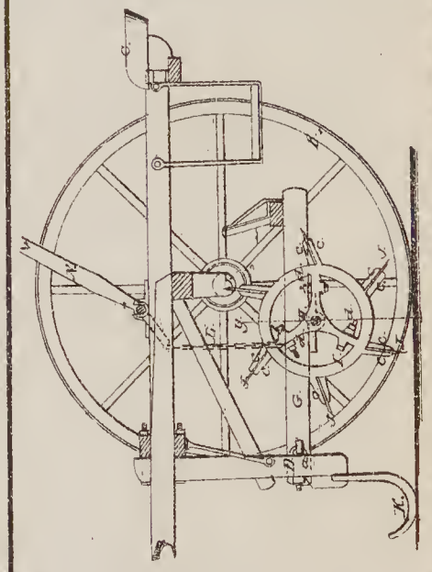
3,671. OSCAR T. EARLE.
METHOD OF OPERATING STEAM-VALVES.

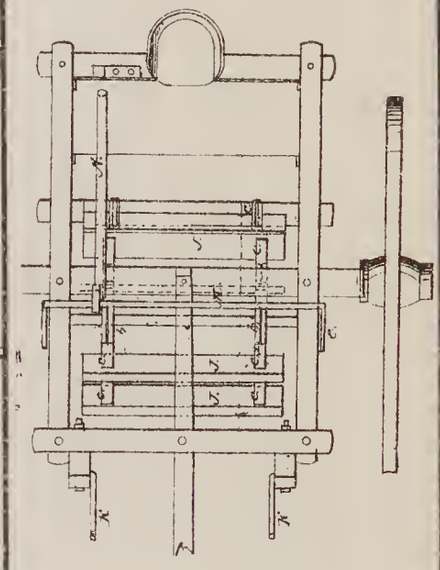


3,672, JAMES ORR. TIRE-TIGHTENER.



3,673, R. B. PARKS. STALK-CUTTERS.
J. R. PARKS.





3,674, EDW. WESTERMAYR.
COMPOSITION FOR ARTIFICIAL STONE.

ILLUSTRATIONS OF PATENTS

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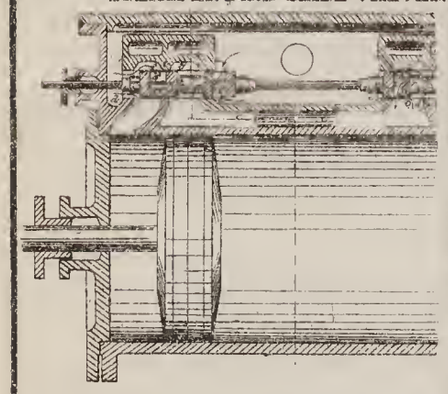
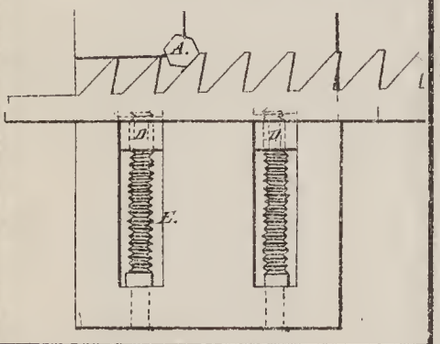
THE UNITED STATES PATENT OFFICE,

OCT. 19, 1869.

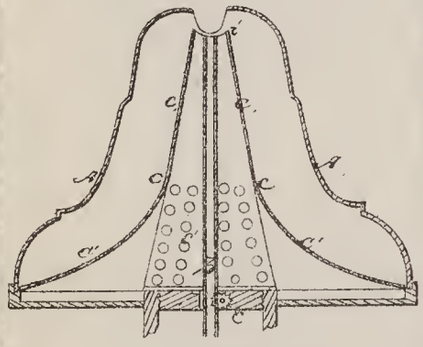
95,868, JOHN F. ALLEN.
STEAM-ENGINE SLIDE-VALVES.



95,869, EMANUEL ANDREWS.
SAW-SWAGE.



95,870, H. M. BEIDLER. LAMP-BURNER.



95,871, HENRY C. BELL
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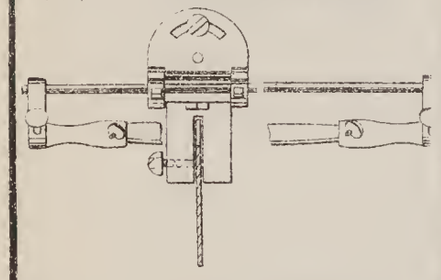
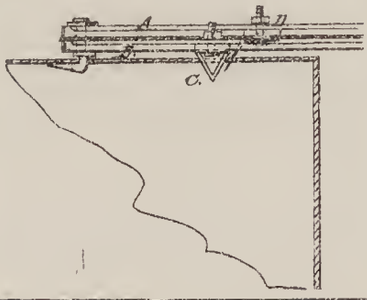
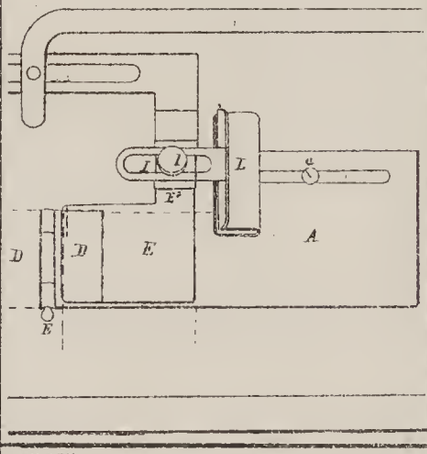


95,872, LOUIS BLACK.
SPRING EYE-GLASSES.

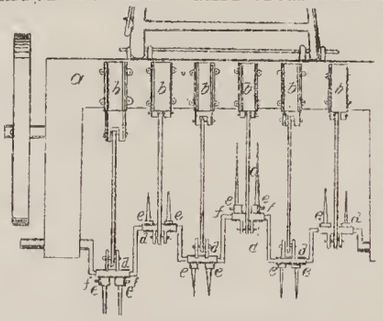
95,873, WM. M. BLEAKLEY.
CAN-OPENERS.



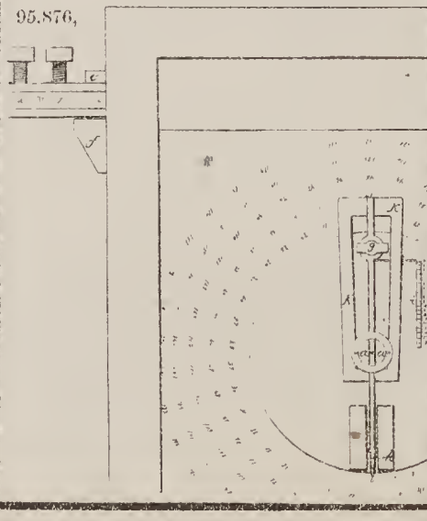
95,874, HENRY E. BODWELL, JR.
TUCKING-ATTACHMENT
FOR SEWING-MACHINES.



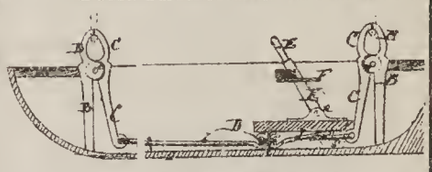
95,875, MILTON BOWKER HAY-SPREADERS.



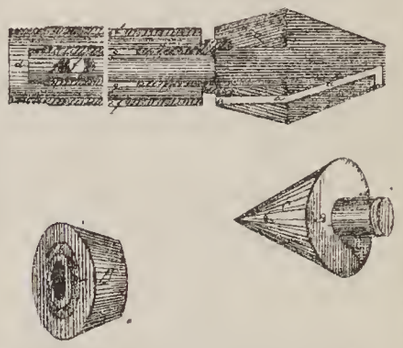
ADDING-MACHINES.
95,876, BENJAMIN E. BROWN.



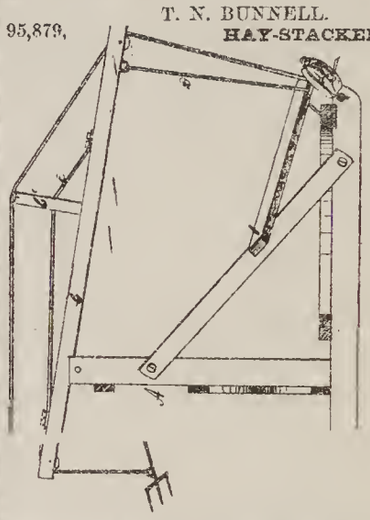
95,877, DANIEL S. BROWN.
BOAT-DETACHING APPARATUS.



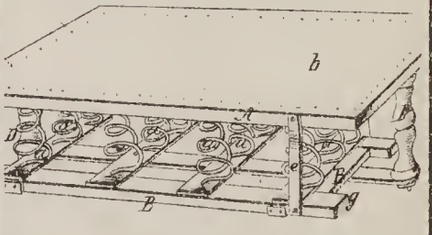
95,878, AUGUSTUS OLIVER BRUMMEL.
DRIVEN-WELL POINTS.



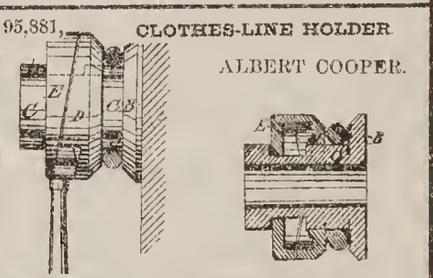
95,879, T. N. BUNNELL.
HAY-STACKERS.



95,880, W. NEWTON COOK.
SPRING-BED BOTTOM.

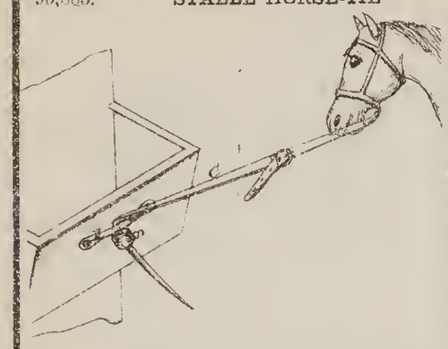


95,881, CLOTHES-LINE HOLDER.
ALBERT COOPER.

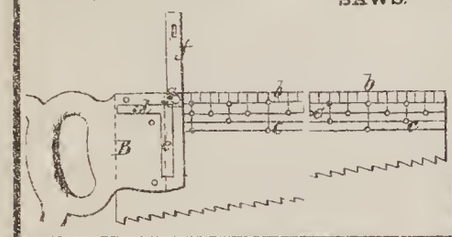


95,882, JOHN CORSON.
MANUFACTURE AND
PRESERVATION OF METALS.

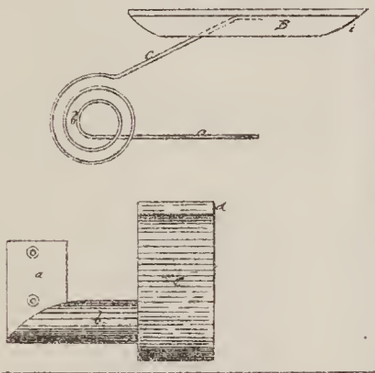
95,883. E. D. CRAMER. STABLE HORSE-TIE



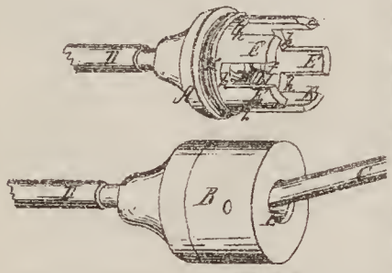
95,884, HERRMANN CRAMER. SAWS.



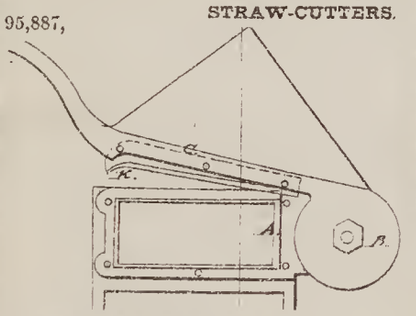
95,885. M. R. DAND. CAR-SPRING



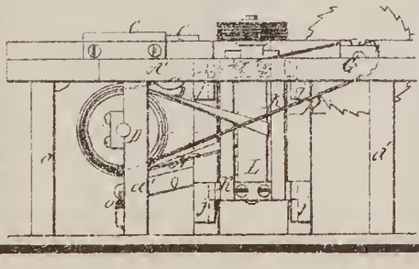
HIRAM DODGE. 95,886, SHAFT-COUPLING.



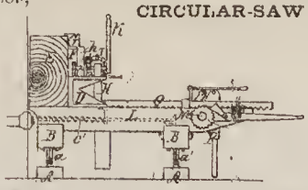
WILSON ELDER. 95,887, STRAW-CUTTERS.



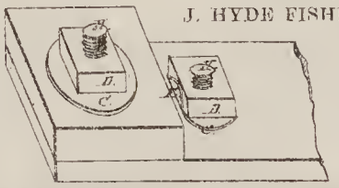
95,888, ERVIN H. EWELL. MACHINE FOR SAWING LATH.



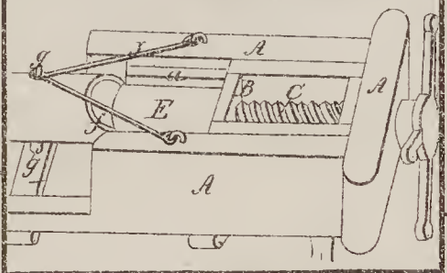
95,889, WM. M. FERRY. CIRCULAR-SAW MILLS.



95,890, NUT-LOCK. J. HYDE FISHER.

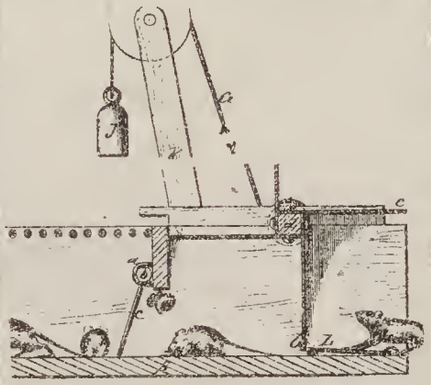


95,891 JOHN J. FLANSBURGH. SAUSAGE-STUFFER.



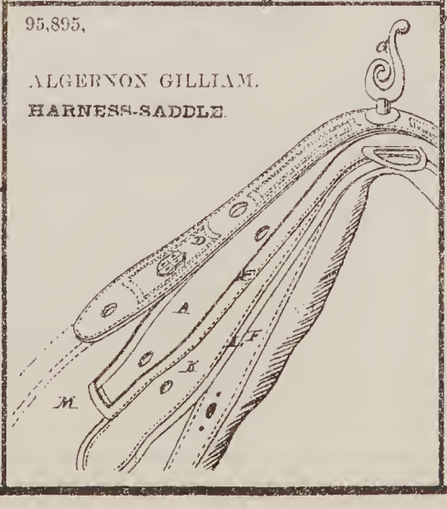
95,892. EGBERT GUY FOWX. PHOTOGRAPHIC PRINTING.

95,893. C. G. FRUSHOUR. ANIMAL-TRAP

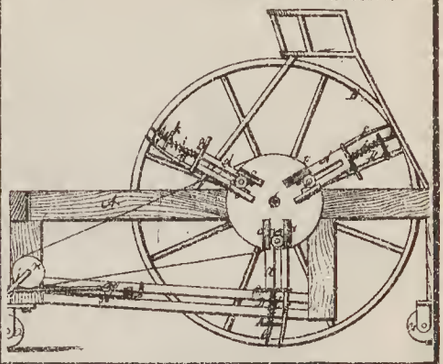


95,894. HORACE W. GEORGE. BOX-TOES FOR BOOTS AND SHOES.

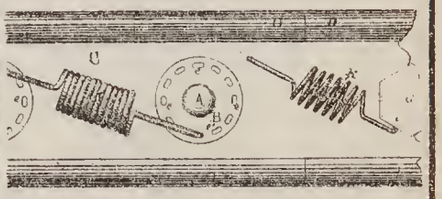
95,895, ALGERNON GILLIAM. HARNESS-SADDLE.



95,896, POTATO-DIGGER. DENNIS GORMAN.

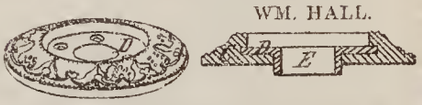


95,897, MERRITT W. GRISWOLD. IMPROVEMENT IN LOCK-NUT.

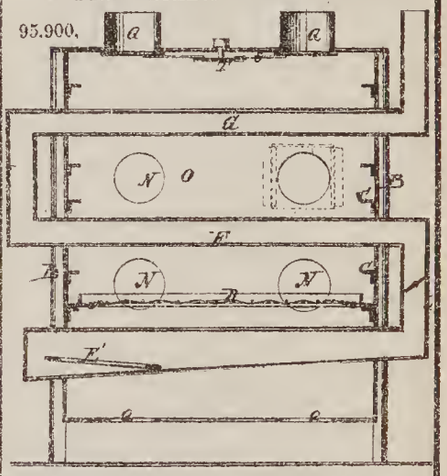


95,898. RULERS. JOSEPH D. HALL.

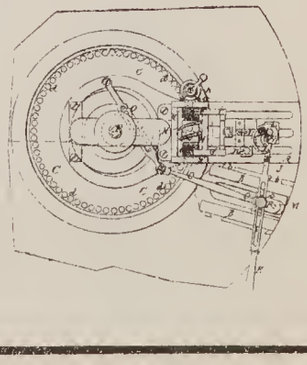
95,899. ROSE FOR DOOR-KNOBS. WM. HALL.



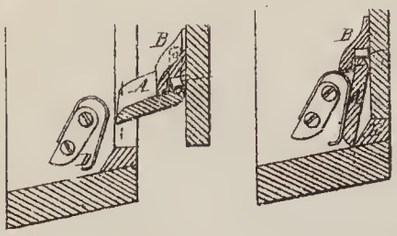
FRUIT-DRIER. JOHN HARVEY. 95,900.



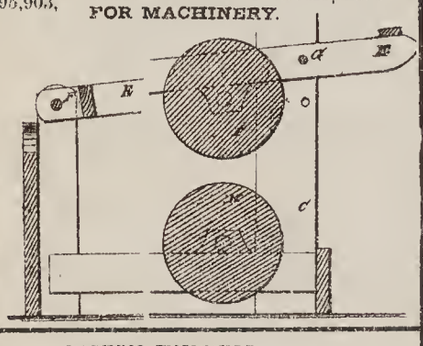
95,901, JOHN HINE. MACHINES FOR DRESSING MILLSTONES.



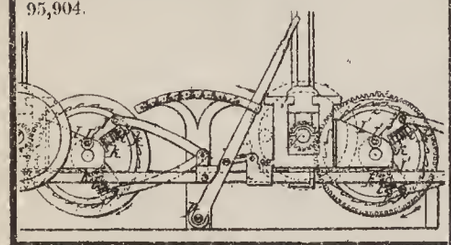
95,902. DAVID H. HORNER.
WEATHER-STRIP.



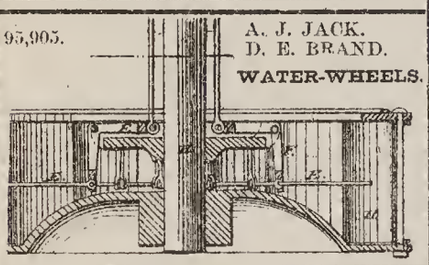
95,903. J. W. HOWARD.
SLACK-BELT ATTACHMENT FOR MACHINERY.



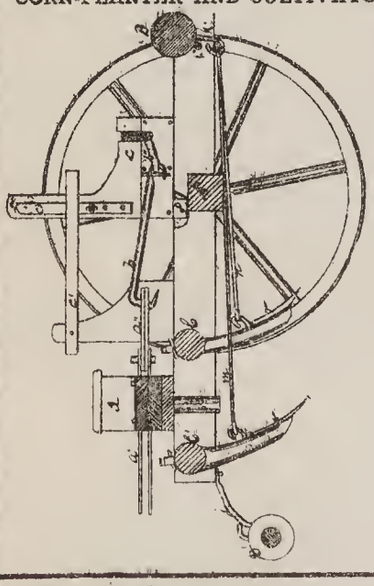
JOSEPH HUBBELL.
HEAD-BLOCKS OF SAW-MILLS
95,904.



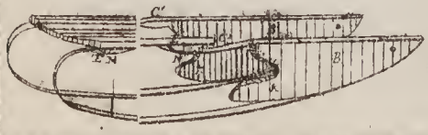
95,905. A. J. JACK.
D. E. BRAND.
WATER-WHEELS.



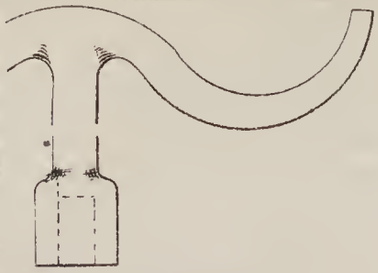
95,906, JESSE JENKINS.
CORN-PLANTER AND CULTIVATOR.



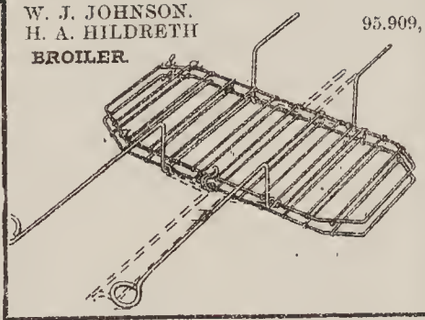
95,907, C. H. JOHNSON.
SLEIGH AND SLED-RUNNERS.



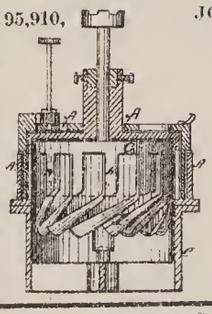
95,908. WM. H. JOHNSON.
WASH-PAVE KEY-HANDLE.



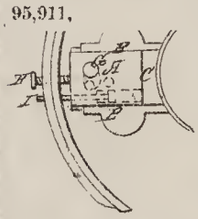
W. J. JOHNSON.
H. A. HILDRETH
BROILER. 95,909,



95,910, JOHN J. KIMBALL.
WATER-WHEELS.

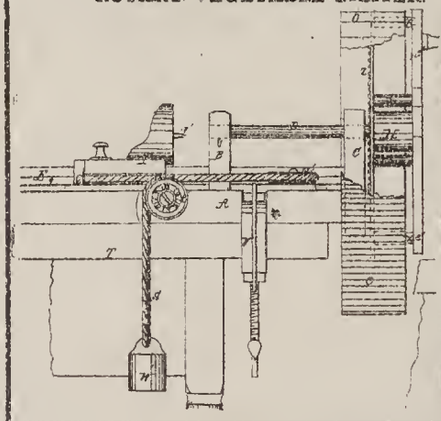


C. A. KING.
LUBRICATOR FOR LOOSE PULLEYS.
95,911,

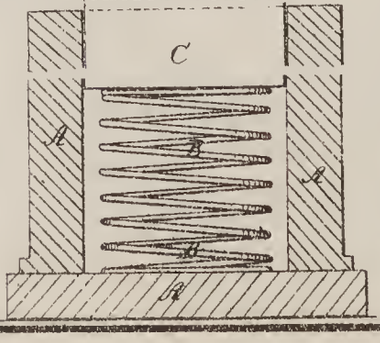


95,912.
C. A. KING
LUBRICATOR FOR LOOSE PULLEYS.

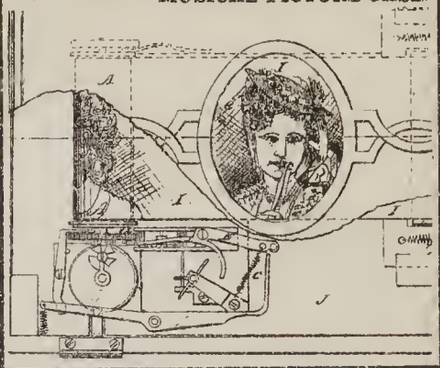
95,913. WILLIAM E. KNIGHT.
ROTARY VEGETABLE-GRATER.



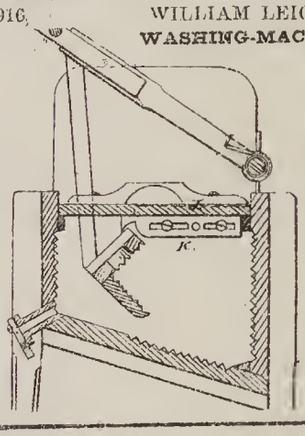
F. KÖHLER.
A. J. ALSING.
95,914, **SPRING POUNDING AND CHOPPING-BLOCK.**



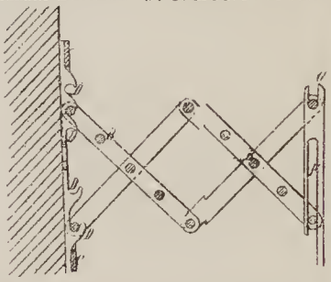
FRANZ FRIEDERICH KULLRICH.
95,915, **MUSICAL PICTURE-CASE.**



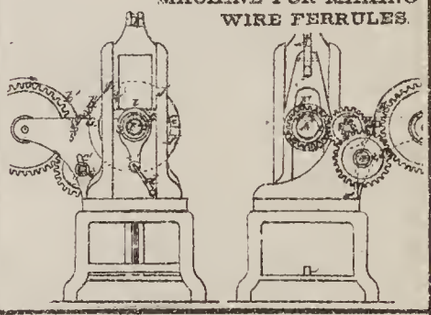
95,916, WILLIAM LEIGHTY.
WASHING-MACHINE.



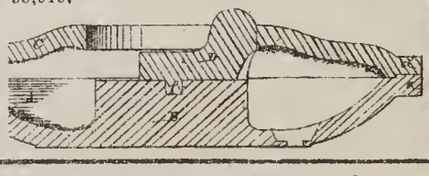
CLOTHES-DRIER. J. C. LONGSHORE.
95,917,



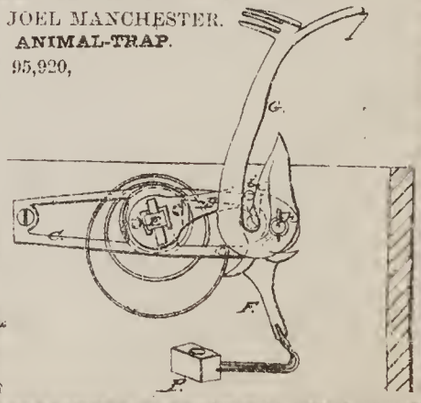
95,918. HENRY O. LOTHROP.
MACHINE FOR MAKING WIRE FERRULES.



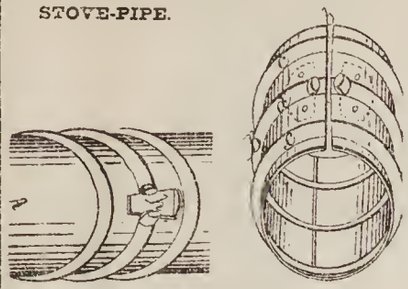
THOS. MAHER.
95,919, **CORE-BOX FOR CAR-WHEELS.**



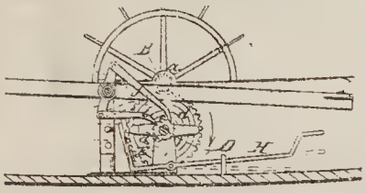
JOEL MANCHESTER.
ANIMAL-TRAP.
95,920,



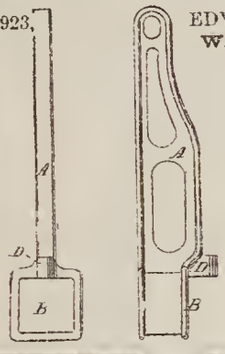
HORACE A. MEARS. 95,921
STOVE-PIPE.



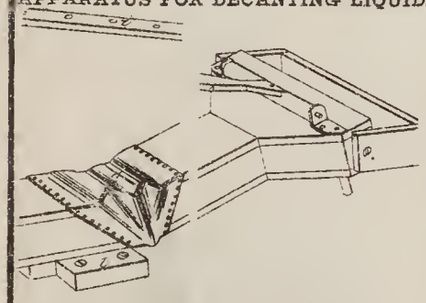
GEORGE A. MILANI.
95,922, PROPELLING VESSELS.



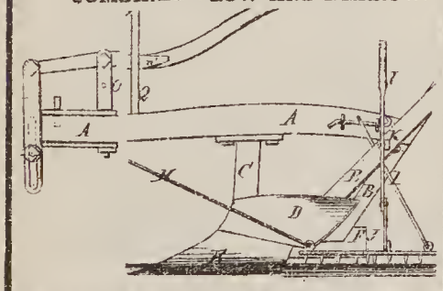
95,923, EDWARD MILNER.
WAGON-STAKE.



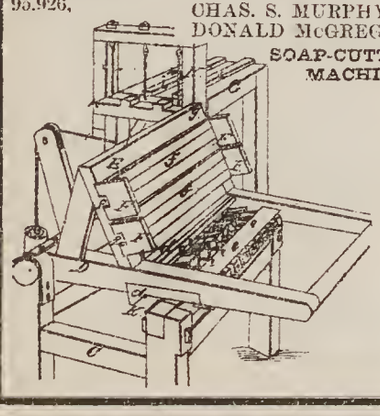
95,924, T. MOLINIER.
APPARATUS FOR DECANTING LIQUIDS.



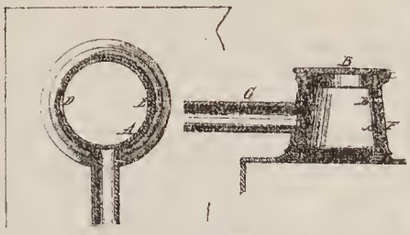
95,925, ALBERT MOORE.
FRIEDERICH WENDEL.
COMBINED PLOW AND FARROW.



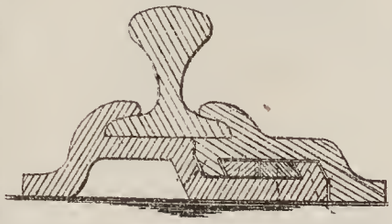
95.926, CHAS. S. MURPHY.
DONALD McGREGOR.
SOAP-CUTTING MACHINE.



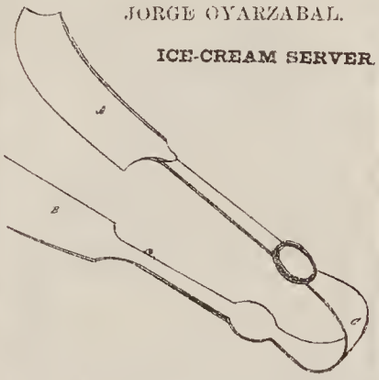
95,927, JNO. McLEOD MURPHY.
CUT-OFF NOZZLE FOR CANS.



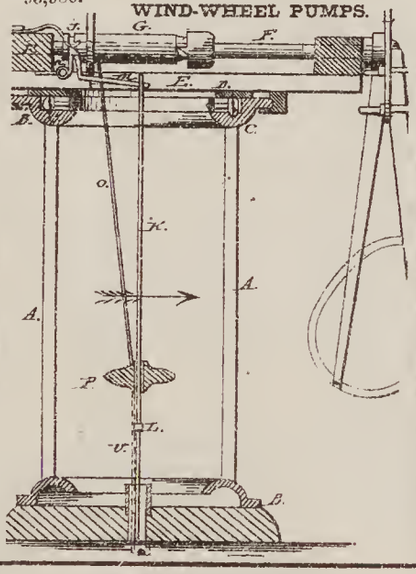
95,928, FREDERICK NICKLIN.
RAILWAY-RAIL CHAIR.



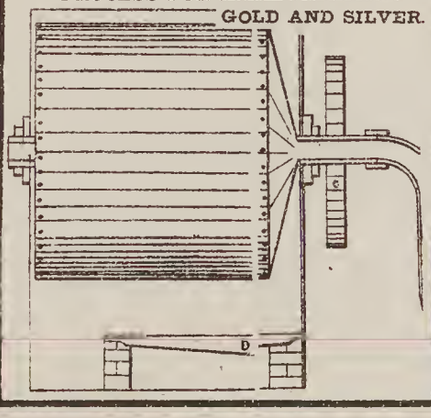
95,929.
JORGE OYARZABAL.
ICE-CREAM SERVER.



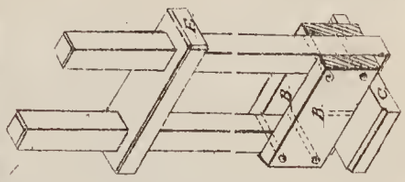
95,930. L. D. PARSONS.
WIND-WHEEL PUMPS.



95,931, ALMARIN B. PAUL.
J. L. WOOD.
PROCESS FOR AMALGAMATING GOLD AND SILVER.

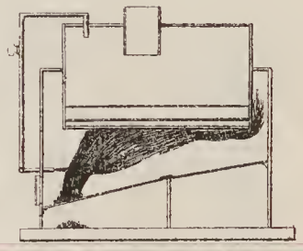


95,932, JAMES N. PEASE.
FENCE-STAKE.

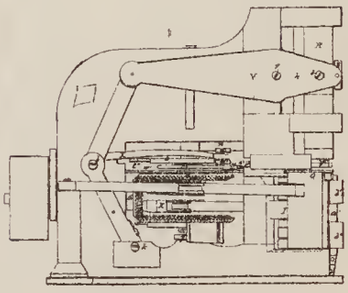


95,933, JOHN PLAYER.
MANUFACTURE OF IRON AND STEEL

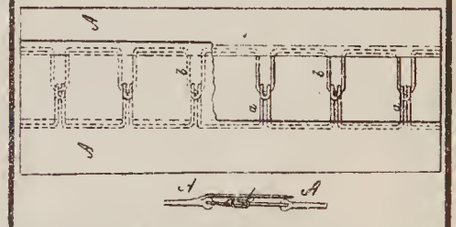
95,934, WILLIAM J. REED
STEAM-GENERATORS.



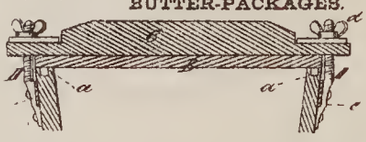
95,935. A. J. ROBERTS.
MACHINE FOR MAKING HORSESHOES.



95,936, EDWD. P. ROCHE
HOOKS AND EYES.



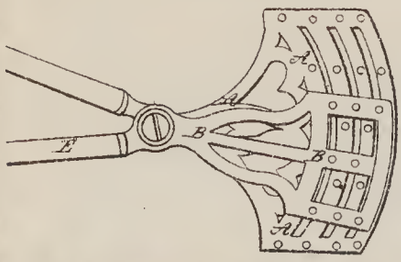
95,937, THEODORE W. RYDING.
BUTTER-PACKAGES.



95,938, ALBERT G. SAFFORD.
RAILROAD-CAR VENTILATOR.

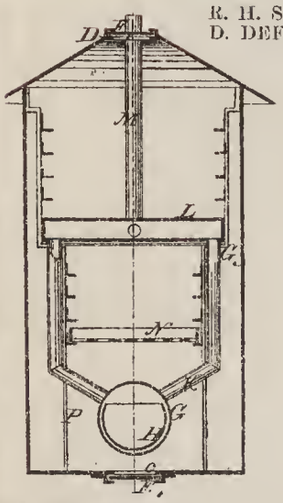
95,939, GEORGE W. SCOLLAY.
PRESERVING DEAD BODIES.

95,940. WARREN SHUMARD.
SOIL-PULVERIZER.

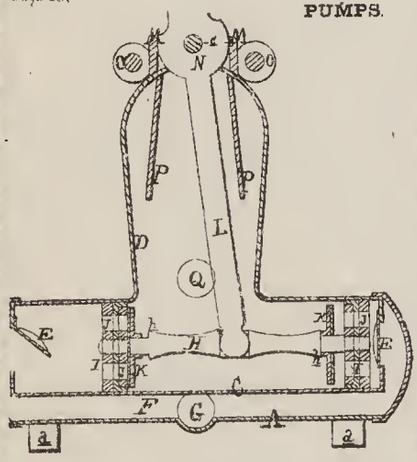


95,941. B. SILLIMAN.
MANUFACTURE OF ILLUMINATING-GAS.

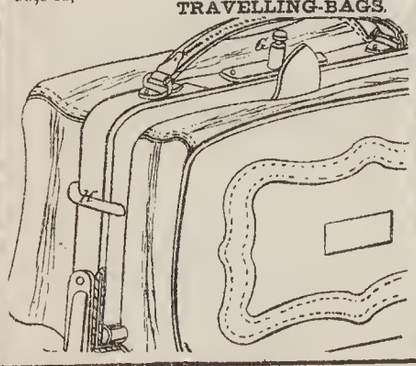
95,942. **FRUIT-DRIER.**
R. H. SIPES.
D. DEFIBAUGH.



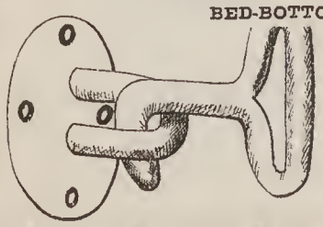
95,943. ANTHONY SLUTHOUR.
PUMPS.



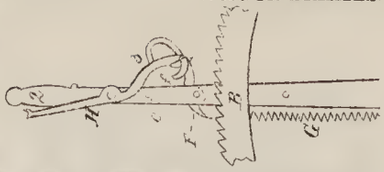
95,944. JOSEPH R. SMITH.
TRAVELLING-BAGS.



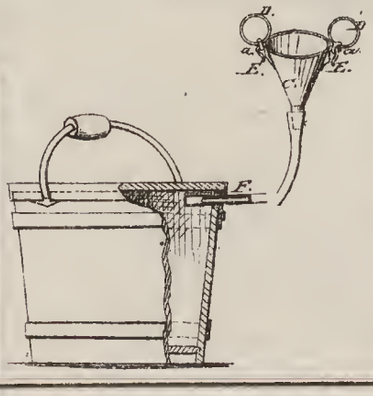
95,945. W. C. SMITH.
BED-BOTTOM.



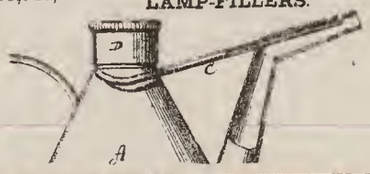
95,946. DAVID T. SNELBAKER.
WAGON-BRAKES.



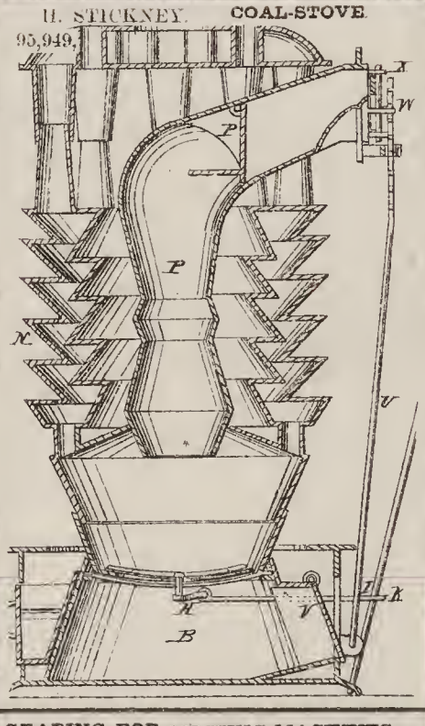
95,947. EUGENE SPEDDEN.
MILKING-APPARATUS.



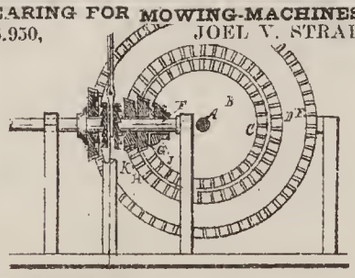
95,948. HENRY W. STAPLES.
LAMP-FILLERS.



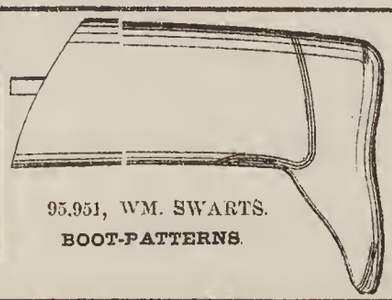
95,949. H. STICKNEY. **COAL-STOVE.**



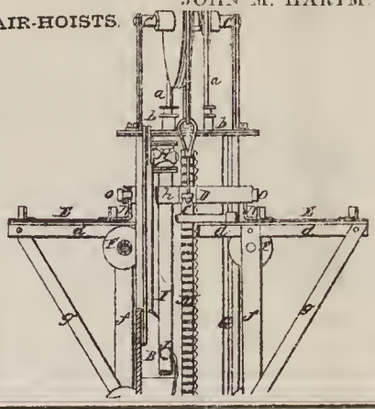
GEARING FOR MOWING-MACHINES.
95,950. JOEL V. STRAIT.



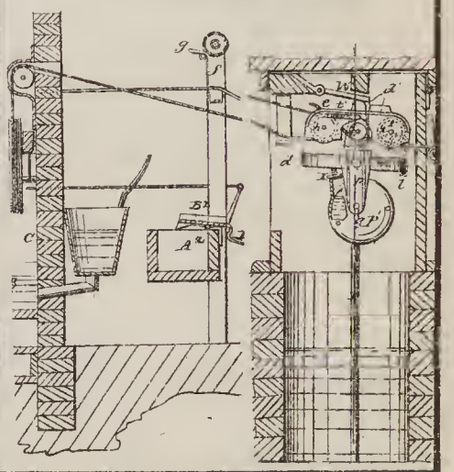
95,951. WM. SWARTS.
BOOT-PATTERNS.



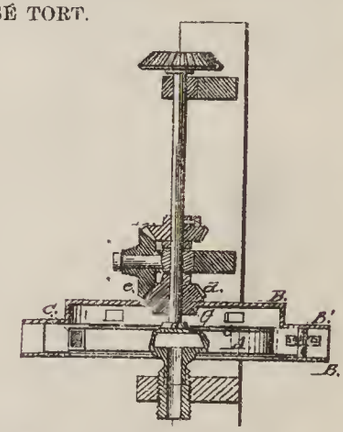
95,952. LEWIS TAWS.
JOHN M. HARTMAN.
AIR-HOISTS.



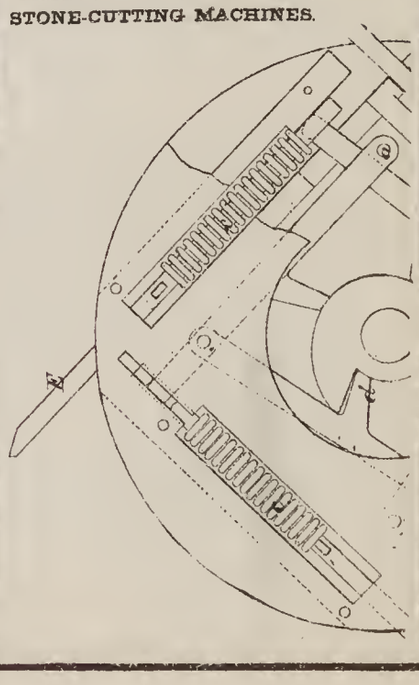
95,953. L. TAYLOR.
J. C. RICHARDSON.
WATER-ELEVATORS.



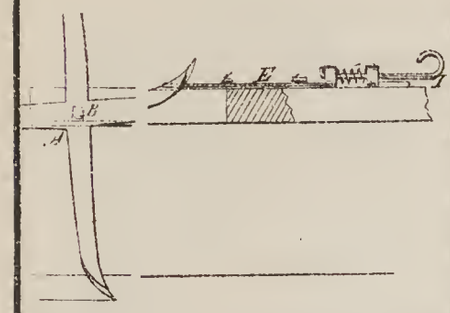
95,954. **WATER-WHEELS.**
JOSÉ TORT.



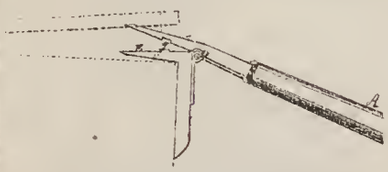
FREDK. TOWNSEND. 95,955.
STONE-CUTTING MACHINES.



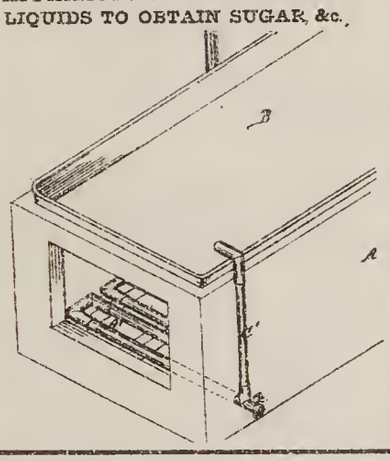
95,956, THEODOR UEHLING.
ROTATING CULTIVATOR.



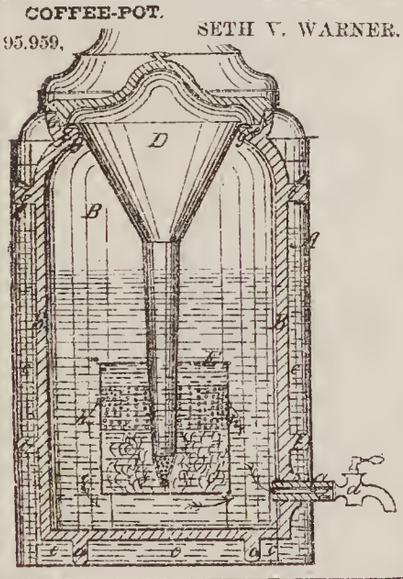
BOX-OPENER.
95,957, HENRY C. VAN GIESON.



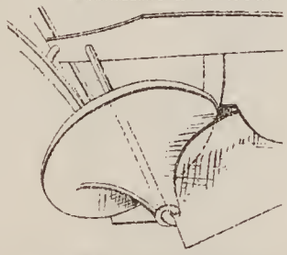
95,958, REUBEN WAKEFIELD.
APPARATUS FOR EVAPORATING LIQUIDS TO OBTAIN SUGAR, &c.



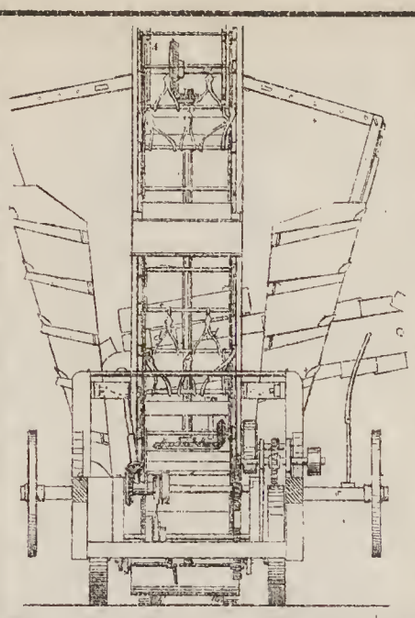
COFFEE-POT.
95,959, SETH V. WARNER.



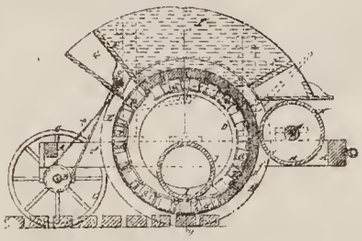
95,960, WILLIAM B. WEST.
PLOWS.



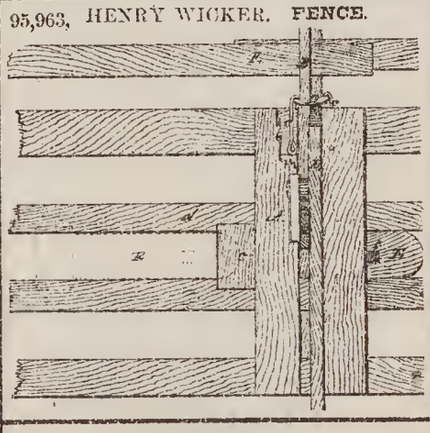
95,961, B. ROBERT WEHNER.
EXCAVATOR.



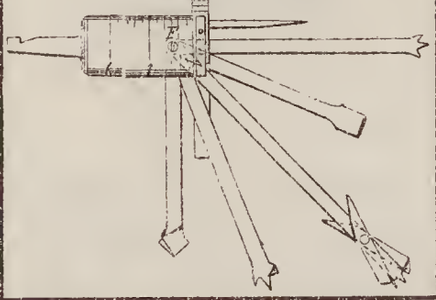
95,962, JOHN WHITEFORD.
BRICK-MACHINE.



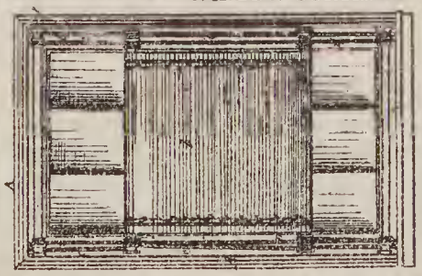
95,963, HENRY WICKER. **FENCE.**



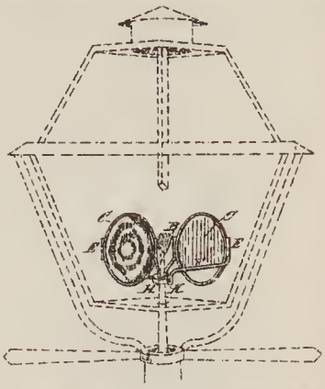
95,964, J. S. ZERBE.
COMBINATION-TOOL.



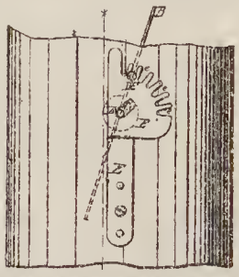
95,965. HENRY AIKEN. **MODE OF HANGING WINDOW-CURTAINS.**



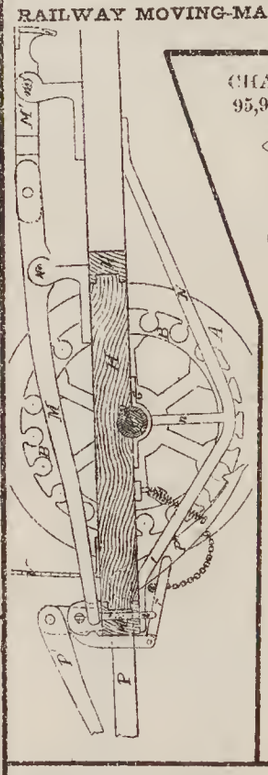
95,966, JOSEPH N. ARONSON.
REFLECTOR FOR STREET-LAMP.



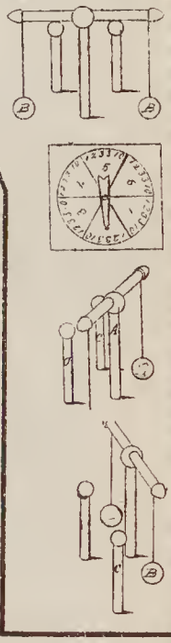
JAS. M. BAKER.
95,967, **STOVE-PIPE DAMPER.**



95,968. WILLIAM BALL.
RAILWAY MOVING-MACHINE.

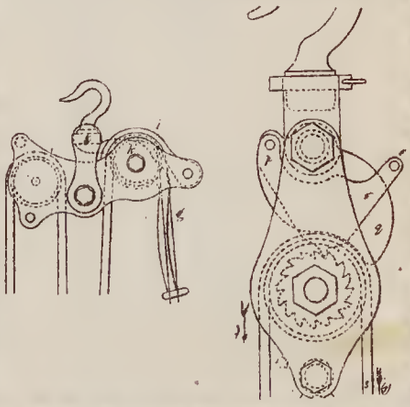


CHAS. B. BARLOW.
95,969, **GAME.**

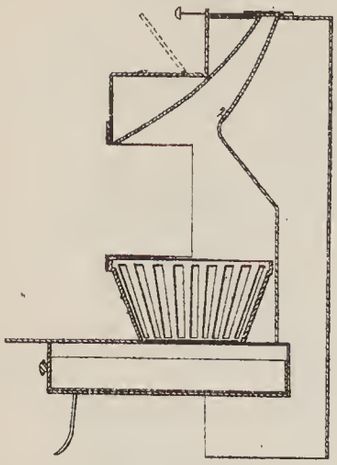


95,970, F. BAUMANN.
COMPOSITION FOR CLEANING STONE.

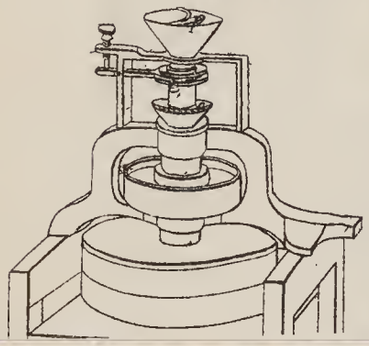
95,971, BELLAIR. **SAFETY-TACKLE.**



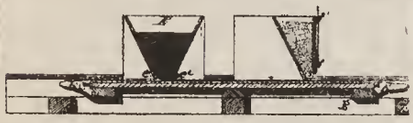
95,972, JACOB BENNER. FIRE-PLACE STOVES.



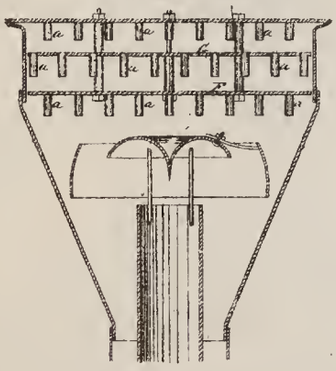
95,973, HENRY L. BENNETT. FEED-MECHANISM FOR GRINDING-MILLS.



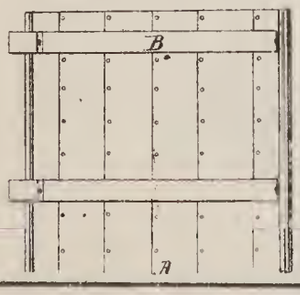
95,974, RUSSELL O. BENTON. APPARATUS FOR APPLYING ROOFING-COMPOSITION TO FELT.



95,975, JOHN WILLIAM BOWKER. SPARK-ARRESTERS.

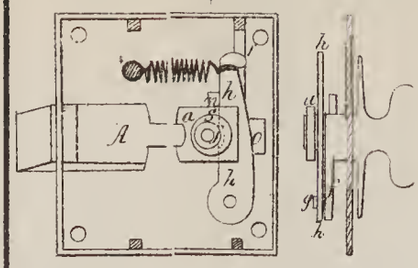


95,976, THOS. BRACHER. SECTIONAL COFFER-DAMS.

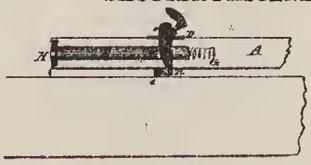


95,977, JOEL BRENTON. PAINT AND PIGMENT.

95,978. DOOR-LATCH. E. W. BRETTELL.

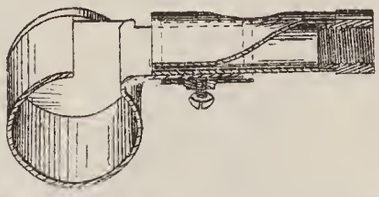


95,979, F. T. BROWN. SHUTTER-FASTENER.



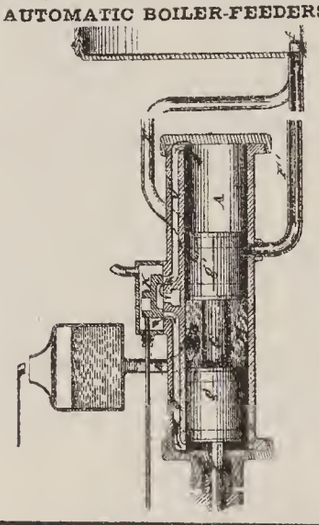
95,980, REUBEN F. BROWN. COMPOSITION FOR BEVERAGE.

95,981, THOMAS BROWN. STEAM AND AIR-WHISTLE.

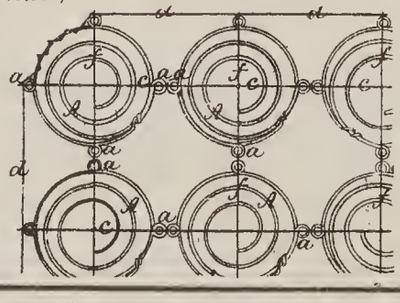


95,982, J. S. BURCH. FENCE.

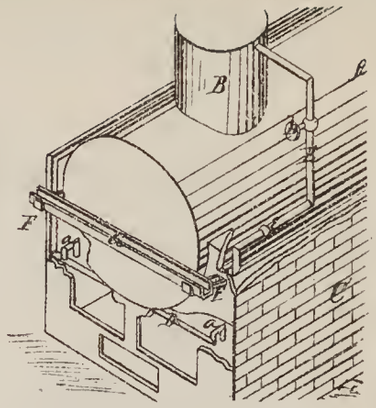
95,983, J. E. BURDGE. AUTOMATIC BOILER-FEEDERS.



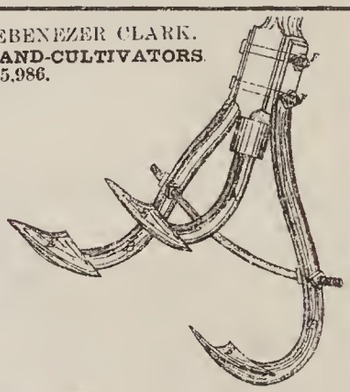
EDWIN L. BUSHNELL. 95,984, SPRING-MATTRESS.



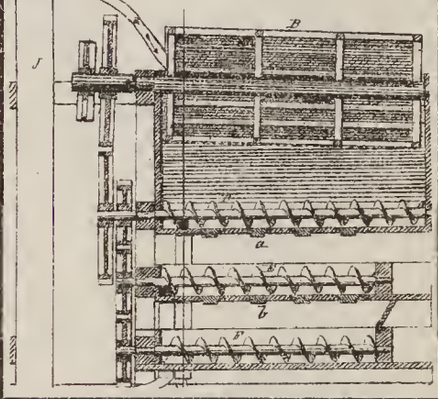
95,985, EBEN SIMPSON CHASE. DEVICE FOR BURNING SAWDUST IN STEAM-GENERATOR FURNACES.



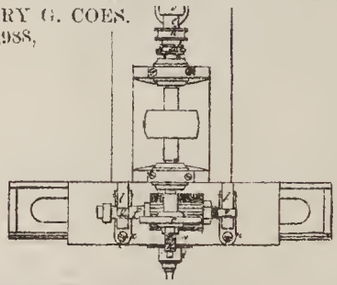
EBENEZER CLARK. HAND-CULTIVATORS. 95,986.



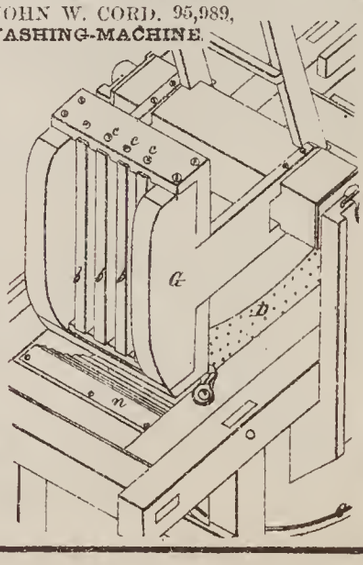
95,987, MANUFACTURING FLOUR. D. R. CLEM



MACHINES FOR GRINDING CYLINDRICAL-FLUTED CUTTERS. AURY G. COES. 95,988,

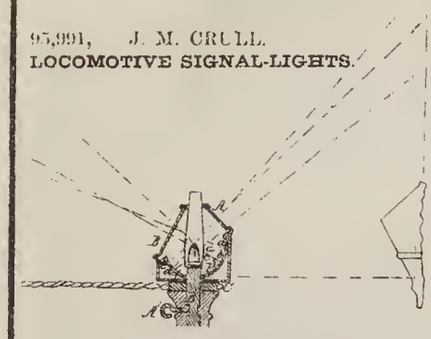


JOHN W. CORD. 95,989, WASHING-MACHINE.

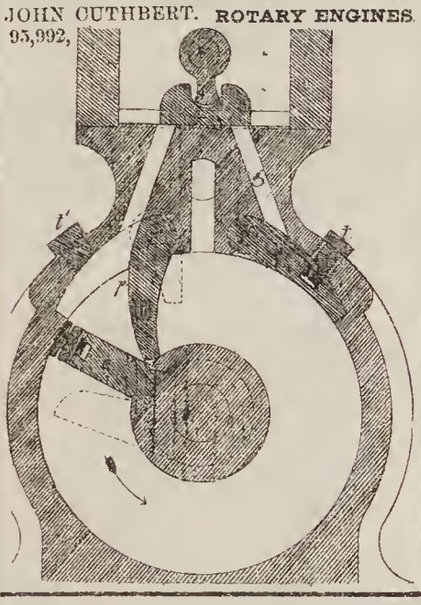


95,990, JOB B. CROWLEY.
METALLIC ROOFING.

95,991, J. M. CRULL.
LOCOMOTIVE SIGNAL-LIGHTS.

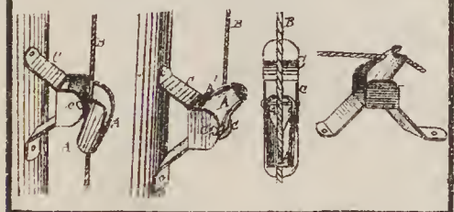


JOHN CUTHBERT. ROTARY ENGINES.
95,992,

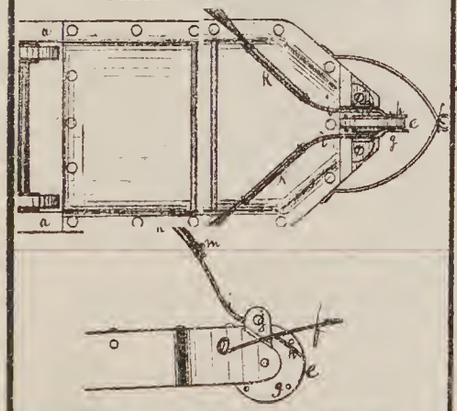


95,993, ALFRED S. DICKINSON.
CURTAIN-FIXTURE.

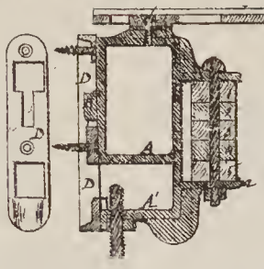
95,994, ALFRED S. DICKINSON.
CURTAIN-FIXTURE DEVICE FOR STOPPING THE MOTION OF CORDS.



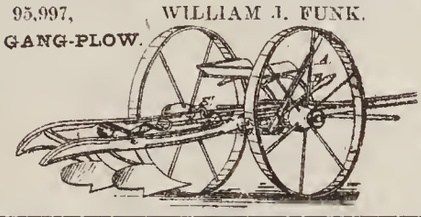
95,995, WM. EWING.
MACHINE FOR DESTROYING WORMS FROM COTTON-PLANTS.



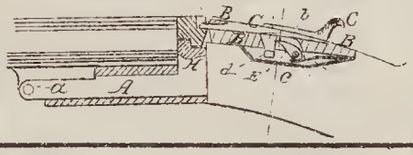
95,996, HENRY L. FRANKLIN.
EUGENE CLARK.
SAD-IRON HOLDER AND CLOTHES-DRIER.



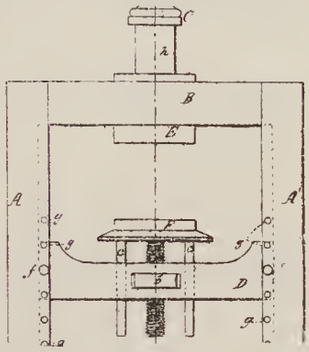
95,997, WILLIAM J. FUNK.
GANG-PLOW.



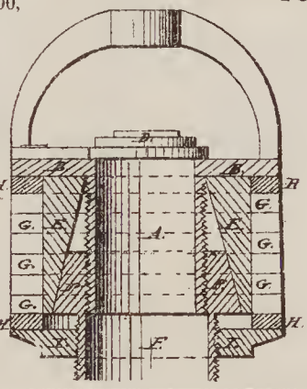
95,998, WM. GOLCHER.
BREECH-LOADING FIRE-ARMS.



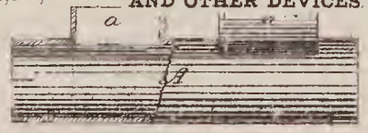
95,999, V. M. GRISWOLD.
PHOTOGRAPHERS' PLATE-VISE.



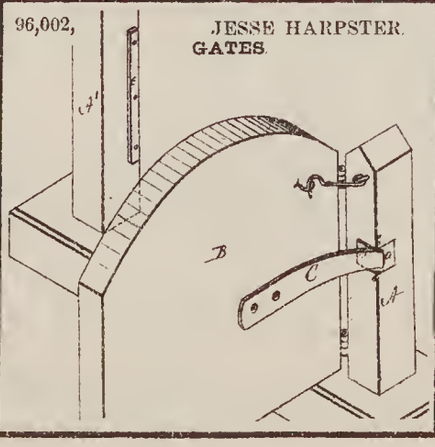
96,000, WM. M. HAMILTON. PUMPS.



96,001, DAVID HARGER.
FURNACES FOR STEAM AND OTHER DEVICES.



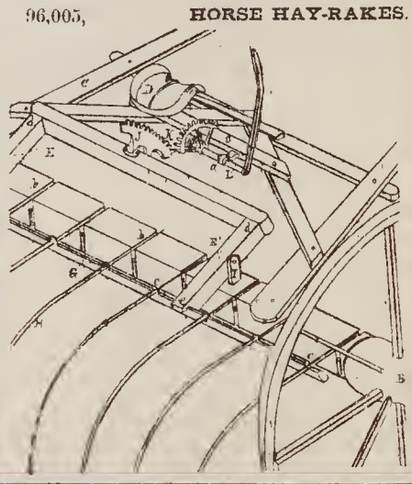
96,002, JESSE HARPSTER.
GATES.



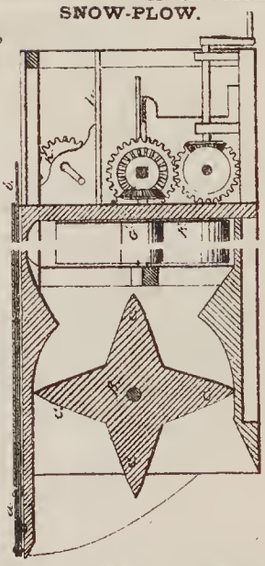
96,003. THOMAS HARRISON.
WILLIAM HOLLMAN.
WM. CHART.
CHALK FOR USE AT BILLIARD-TABLES.

96,004, FRANKLIN B. HUNT.
STRAW-CUTTERS.

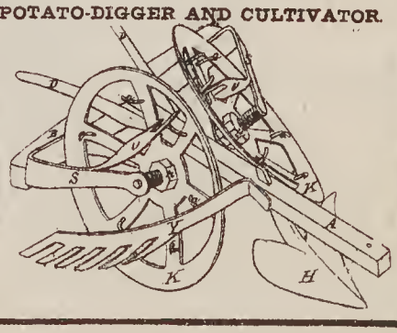
J. G. HUNTINGTON.
96,005, HORSE HAY-RAKES.



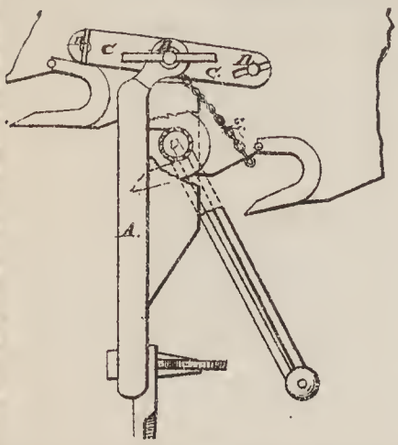
A. H. JACKSON.
SNOW-PLOW.
96,006,



96,007, MOSES JOHNSON.
POTATO-DIGGER AND CULTIVATOR.

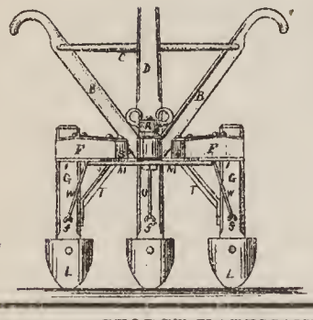


96,008, NELSON JOHNSON.
SAW-GUMMER.

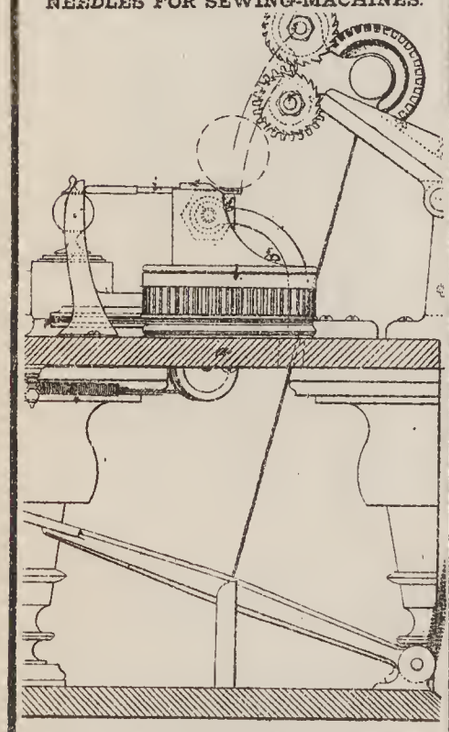


NELSON JOHNSON.
96,009, SAW-SWAGE.

E. A. KAMERER.
96,010, SHOVEL-PLOW.

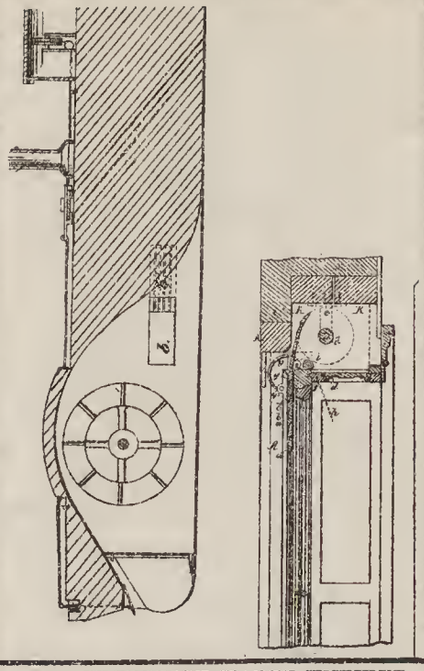


GEORGE KARRMANN.
96,011, MACHINE FOR MAKING NEEDLES FOR SEWING-MACHINES.



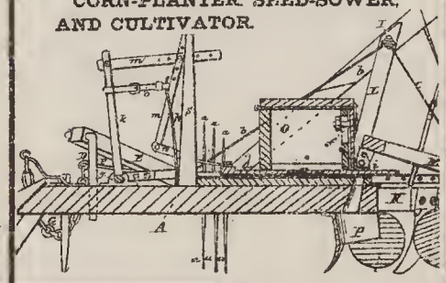
96,012, WILLIAM M. KIMBER.
VARNISH FOR PLASTERED WALLS AND FOR COATING OTHER SURFACES.

96,013, STEPHEN R. KIRBY.
CANAL-TUGS.



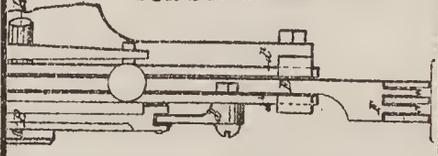
FREDERICK HARTT KNEVITT.
96,014. HENRY HERBERT HAZARD.
WINDOW-SHUTTER AND BLIND.

96.015. DANIEL P. LEACH.
CORN-PLANTER, SEED-SOWER, AND CULTIVATOR.

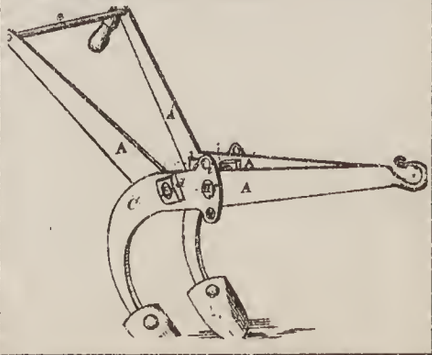


96,016, JOSIAH LETCHWORTH.
BREAST-STRAP ATTACHMENT FOR HARNESS.

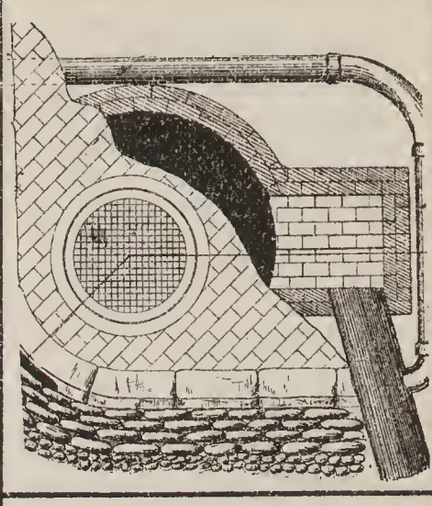
HENRY LOMAX.
96,017, FEEDING-MECHANISM FOR SEWING-MACHINES.



96,018, W. W. LOVE.
METALLIC DOUBLE-SHOVEL PLOW.

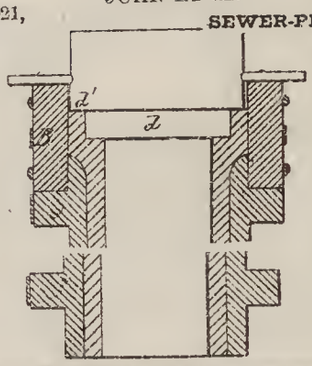


96,019, JAMES J. LYON.
CATCH-BASIN FOR SEWERS.

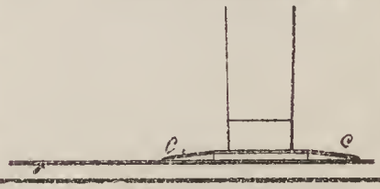


96,020, J. C. LYONS.
HOLLOW-RUBBER GOODS

JOHN LYTH.
96,021, SEWER-PIPE.

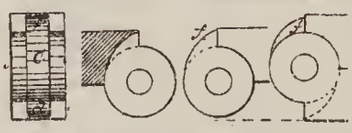


THOS. J. McGEARY.
96,022, PLASTERERS' HAWK.



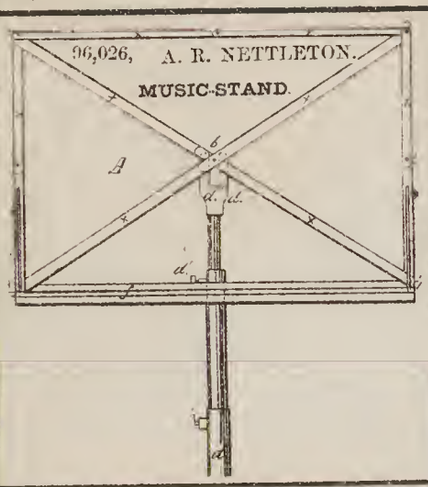
JOHN R. MOFFITT.
96,023, HEEL-STIFFENER.

96,024, F. B. MORSE.
STUMP-JOINTS FOR CARRIAGES.

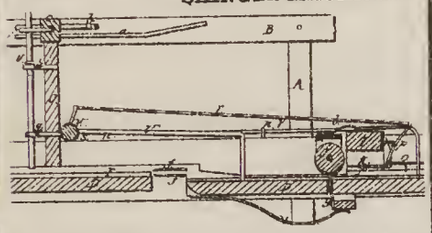


96,025, F. B. MORSE.
STUMP-JOINTS FOR CARRIAGES.

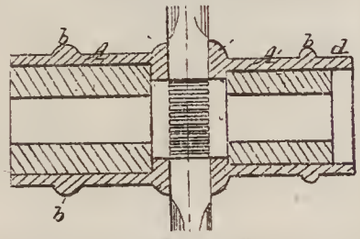
96,026, A. R. NETTLETON.
MUSIC-STAND.



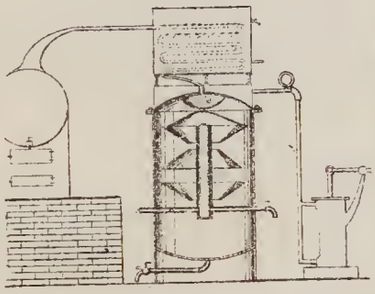
96,027. PHILIP D. NORTHCRAFT.
SHINGLE-MACHINE.



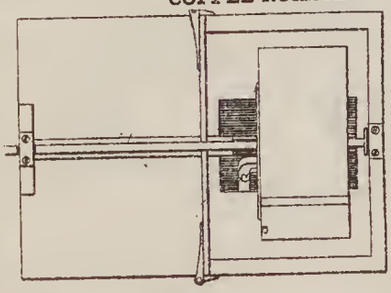
96,028, JAMES O'CONNOR.
CARRIAGE-HUB SHELL.



96,029, JOHN S. OLIVER.
EDWARD HARRIS.
DISTILLING WHISKEY
AND OTHER SPIRITS.

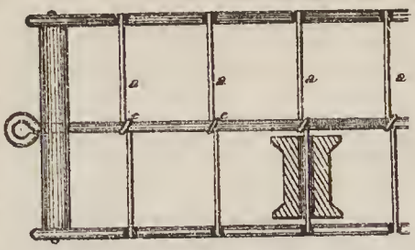


96,030, CHARLES T. PALMER.
COFFEE-ROASTER.

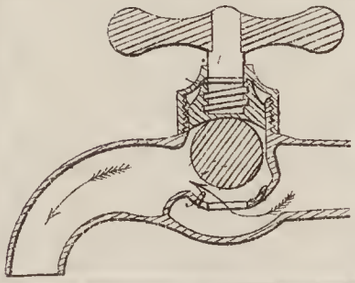


96,031, JOHN K. PALMER.
WATER-PROOF COATING OR PAINT
FOR WOOD AND OTHER MATERIALS.

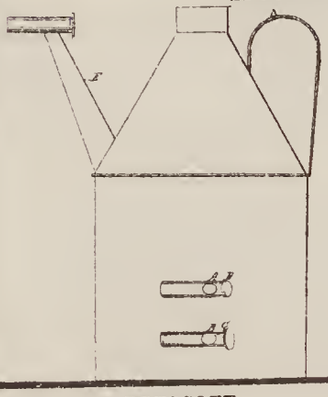
96,032. WM. P. PATTON.
SPOOL-RACK.



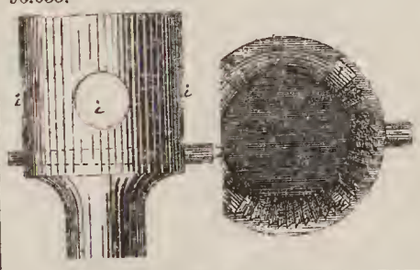
96,033. CHARLES PERKES.
COMPRESSION-COCKS.



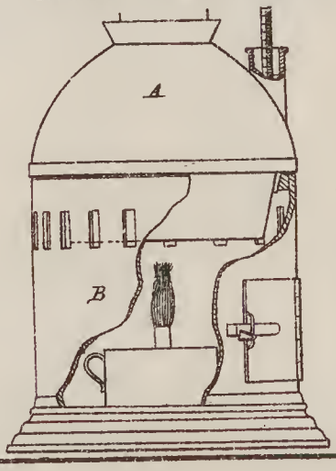
96,034, T. C. PHINNEY.
C. E. BANCROFT.
SPOUTED CANS.



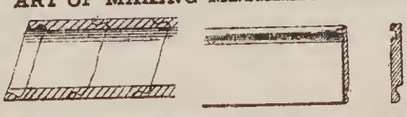
A. J. PRESCOTT.
96,035. REAMER.



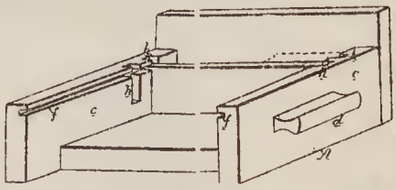
96,036, L. QUETSCH.
ADMINISTERING MEDICATED
OR PURE STEAM TO BRUTES.



96,037. JOHN B. ROOT.
ART OF MAKING METALLIC TUBES.

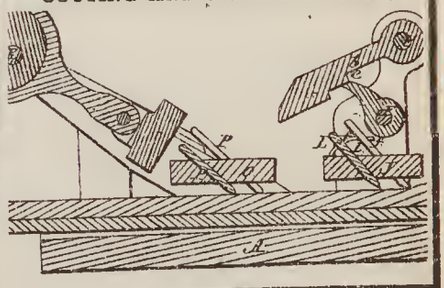


96,038, FRED. SCHAEFFER.
APPARATUS FOR DIVIDING POWDERS.

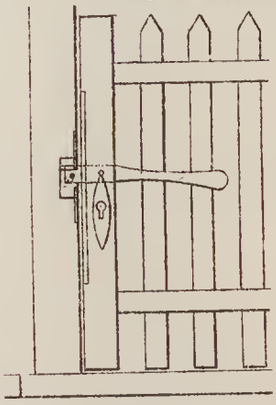


96,039, EDMUND A. SEELEY.
ATTACHMENT TO ROLLS FOR
CALENDERING PAPER-BOARDS.

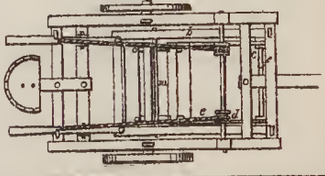
96,040, THOMAS SHARP.
CUTTING AND DRESSING STONE.



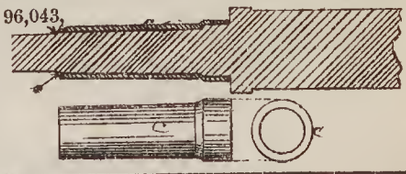
96,041, DANIEL SHEETS.
GATE-LATCHES.



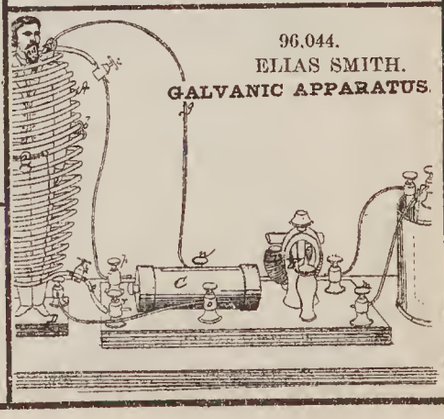
96,042, JOHN B. SHERLOCK.
CORN-STALK CUTTER.



ALFRED E. SMITH. CARRIAGE-AXLES.
96,043,

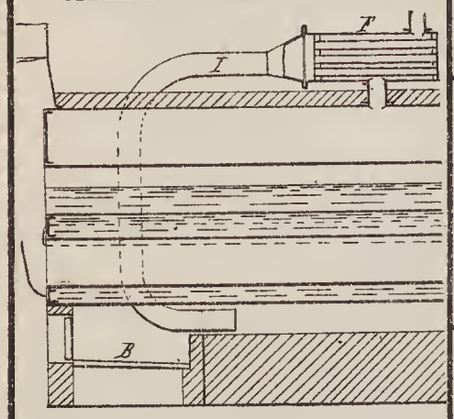


96,044.
ELIAS SMITH.
GALVANIC APPARATUS.

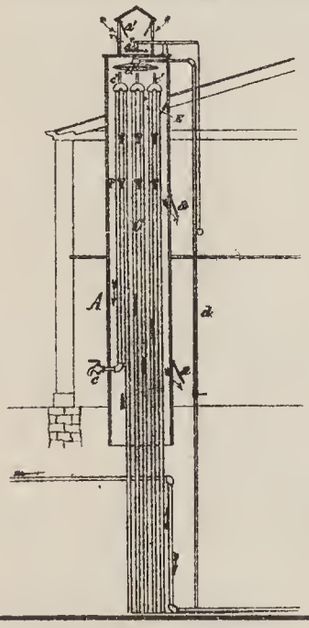


96,045, H. JULIUS SMITH.
MODE FOR ATTACHING DIAMONDS FOR STONE-DRILLING.

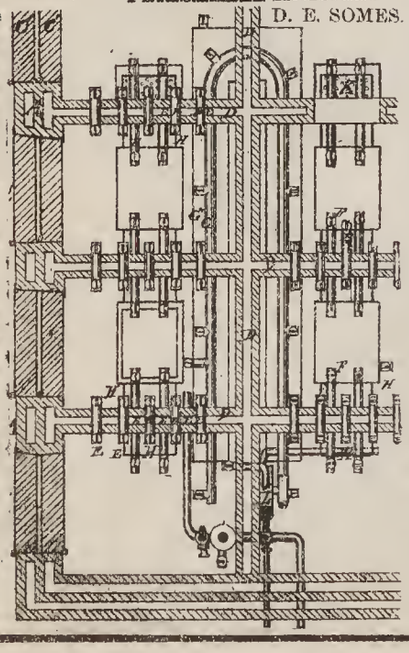
WRIGHT SMITH.
96,046, **SUPERHEATING DEVICE FOR STEAM AND OTHER GENERATORS.**



96,047, D. E. SOMES.
VENTILATING AND COOLING.



PROCESS AND APPARATUS FOR COOLING AND PRESERVING PERISHABLE ARTICLES.
96,048, D. E. SOMES.



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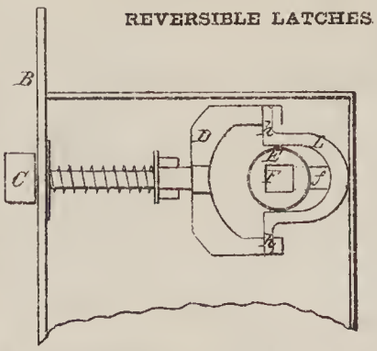
REVERSIBLE LATCHES.



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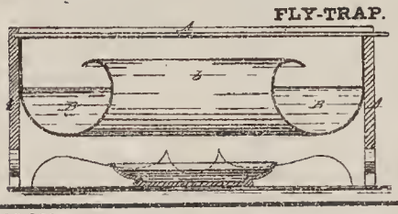

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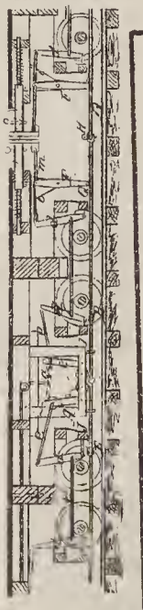

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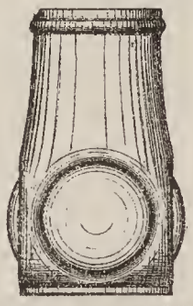
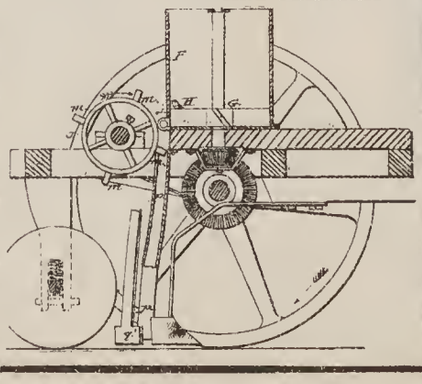
MICHAEL SWEENEY.
96,053, **LANTERN-GLOBE.**



S. W. THOMPSON.
96,054, **COTTON-SEED SEPARATOR AND PLANTER.**



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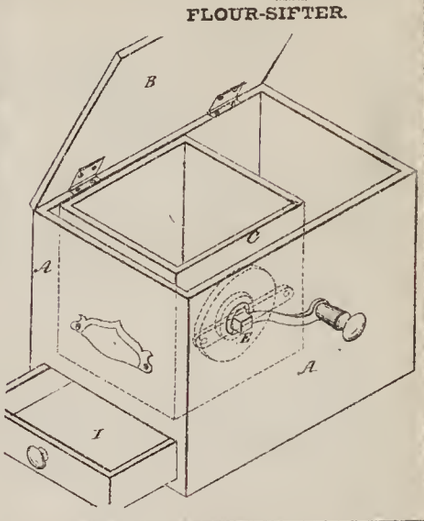

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APPARATUS FOR AGEING SPIRITUOUS LIQUORS.
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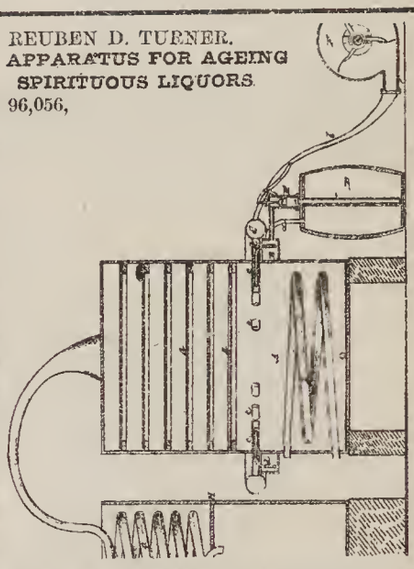

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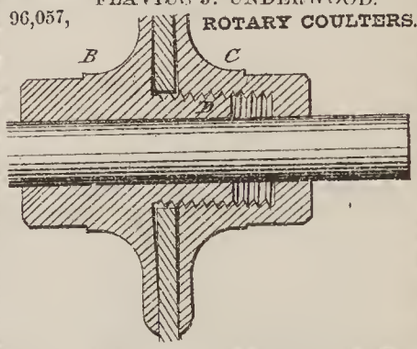

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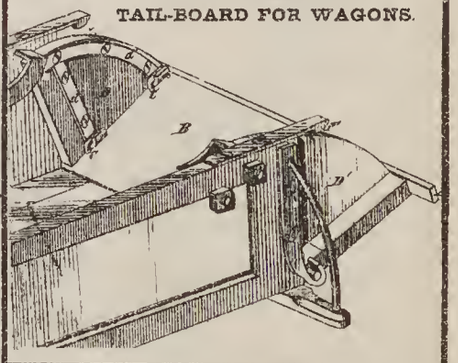
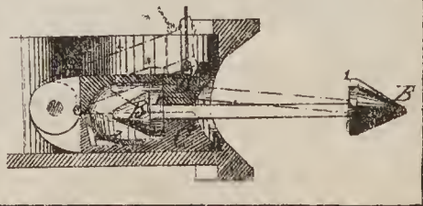
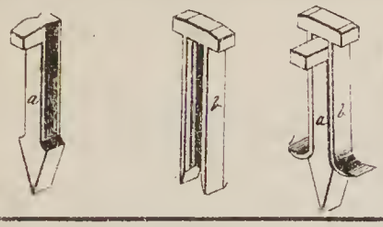


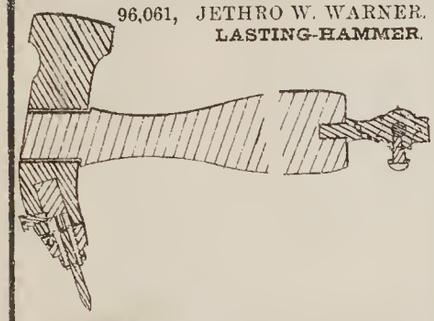
96,059, WILLIAM V. WALLACE.
RAILWAY-CAR COUPLING.



96,060. WM. V. WALLACE. **SPIKES.**

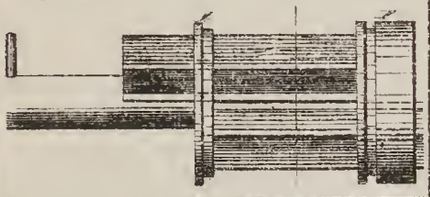


96,061, JETHRO W. WARNER. **LASTING-HAMMER.**

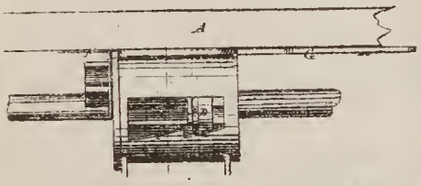


GARDNER WARREN.
96,062. **LAYING STREET-PAVEMENTS.**

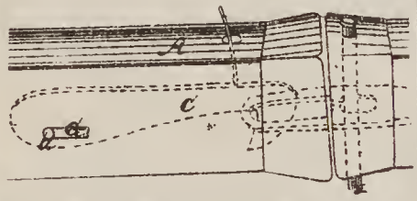
96,063, WILLIAM WEUSTHOFF. **SEED-WHEELS FOR GRAIN-DRILLS.**



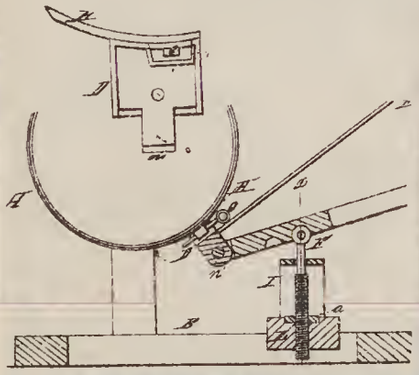
96,064, W. WEUSTHOFF. CHARLES SCHMIDT. **GRAIN-DRILLS.**



96,065, JNO. M. WHEELER. CHARLES W. CHASE. **CAR-COUPLING.**



96,066, EARL A. WHITE. **DEVICE FOR GRINDING METAL PLATE.**



S. LLOYD WIEGAND.
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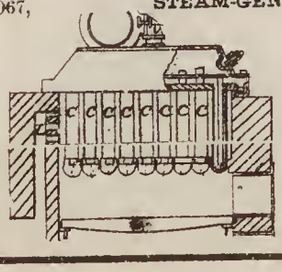

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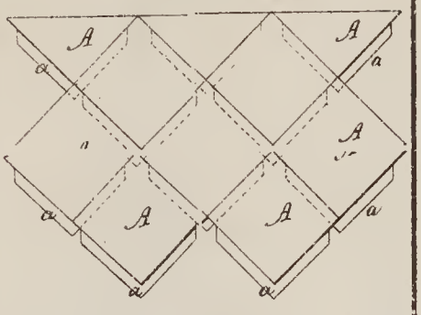

JOHN F. WORTH.
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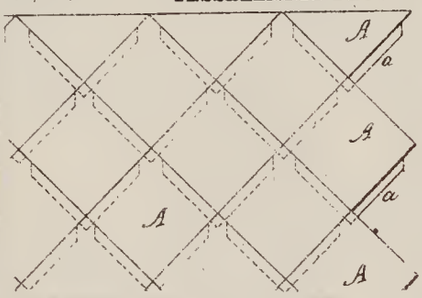
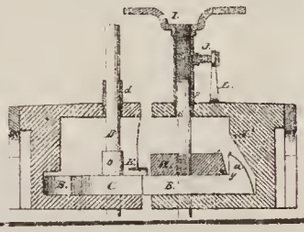
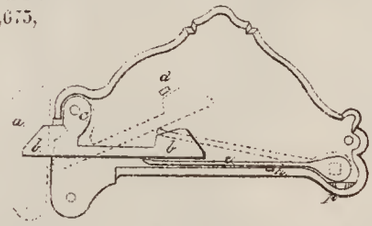


96,070, J. S. MERRIKEN. **RAILWAY-CAR COUPLING.**



DOOR-LATCHES. F. W. DEAN.
3,675,



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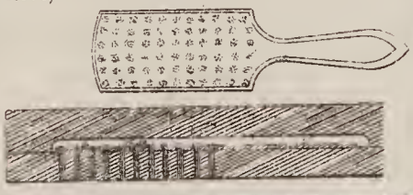
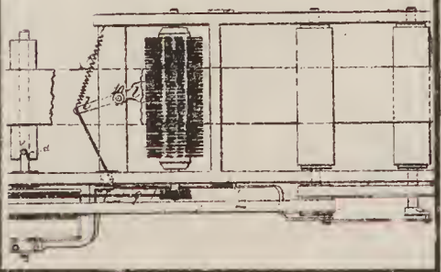
3,676, **BRUSH.**

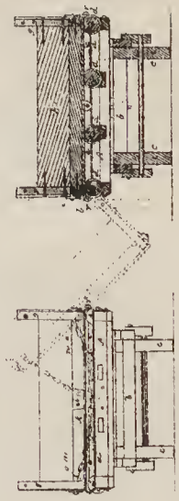


3,677. HUGO FLECK. **MANUFACTURE OF GLUE.**

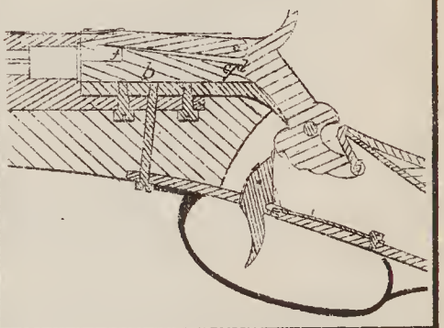
CHAS. E. L. HOLMES.
3,678, **MACHINE FOR DRYING AND SCOURING SHEET-METAL.**



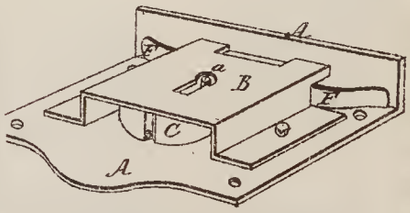
ISAAC KEITH. [L. S.]
3,679, HIRAM T. KEITH. [L. S.]
ISAAC N. KEITH. [L. S.]
DUMPING-CAR.



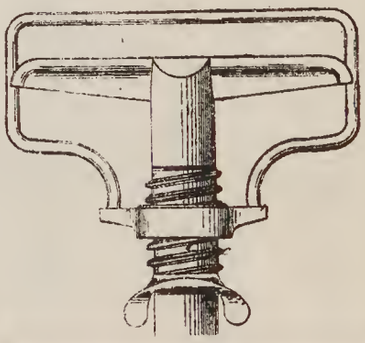
3,680. J. D. S. NEWELL. **BREECH-LOADING FIRE-ARMS.**



3,681, NECOLAS PETRE. **LOCKS.**



3,682, LUKE TAYLOR. **MOP-HEAD.**



WM. C. VOSBURGH.
W. A. LUDDEN.
3,683, **RUBBER TO PENCILS. MEANS OF ATTACHING.**

EDWIN A. SCOTT.
3,684, **BROILER.**

ILLUSTRATIONS OF PATENTS

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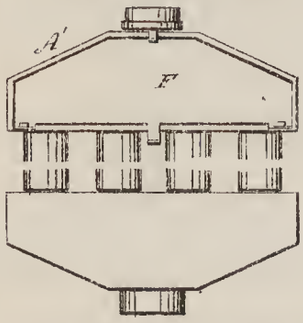
OCT. 26, 1869.

96,071, A. ALBEE. **HEAT-RADIATORS.**



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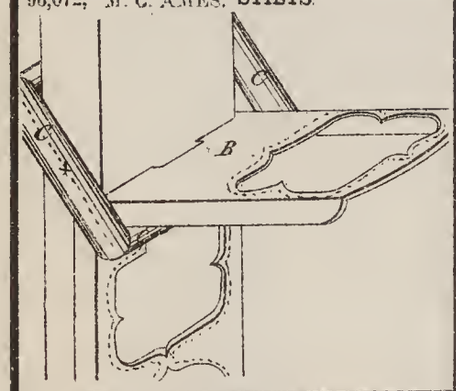

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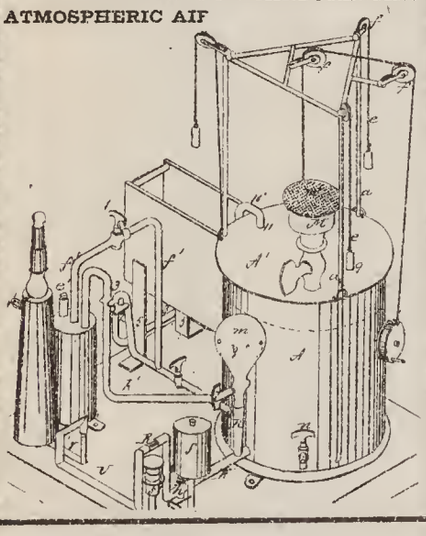
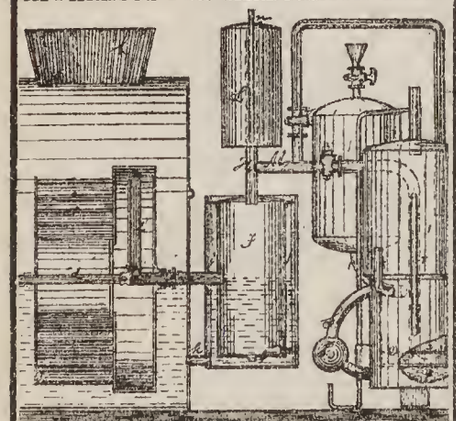
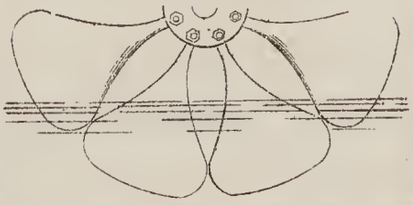


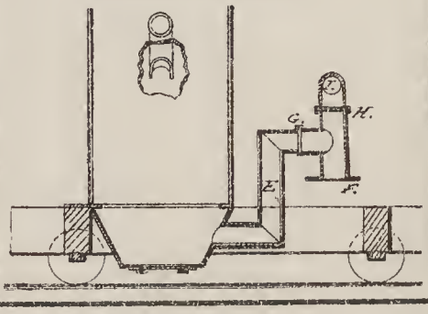
96,074, ARTHUR BARBARIN. A. E. DUPAS. **APPARATUS FOR CARBURETTING AIR.**



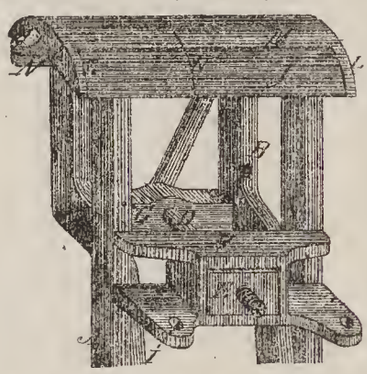
96,075, THOS. BELL. **PROPELLERS.**



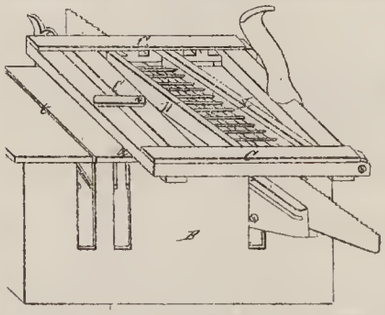
96,076, J. P. BENOIT. **PITCHING BARRELS.**



96,077, B. BLACKSTONE. **COMBINED SAW-SET, CLAMP, AND VISE**



96,078, LEVI N. BOREM. **MACHINE FOR SHARPENING SAWS.**



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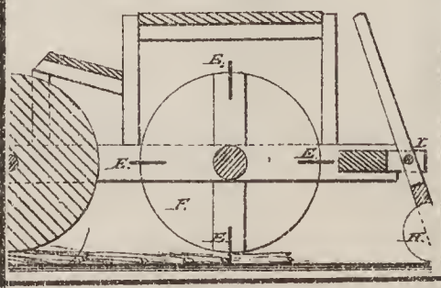

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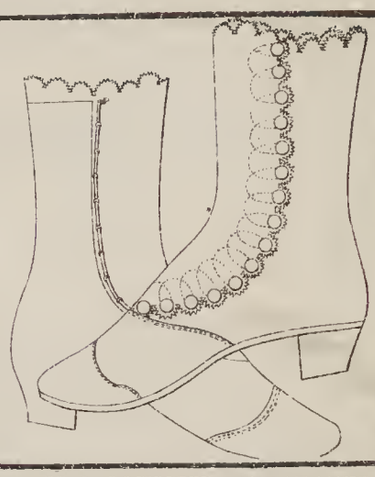

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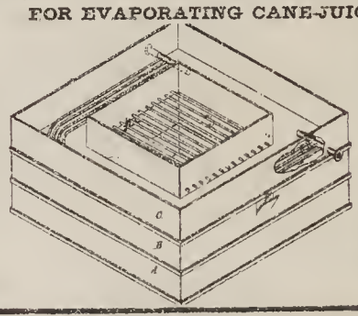

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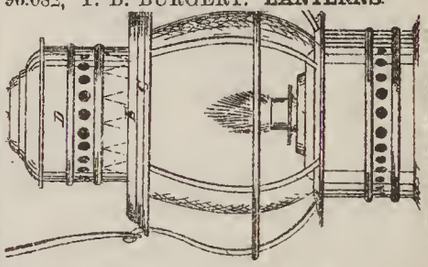
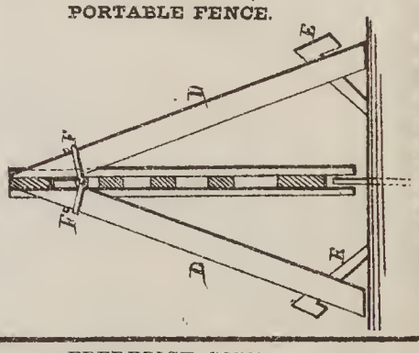
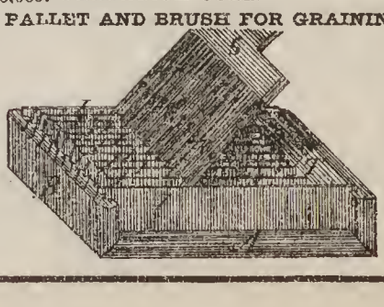


96,083, D. S. BUTLER. **BUCKLES.**

96,084, JACOB CLOSS. **PORTABLE FENCE.**

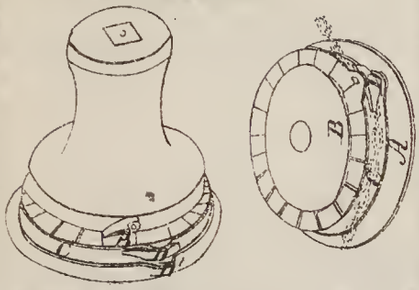


96,085. FREDERICK COLE. **PALLET AND BRUSH FOR GRAINING.**

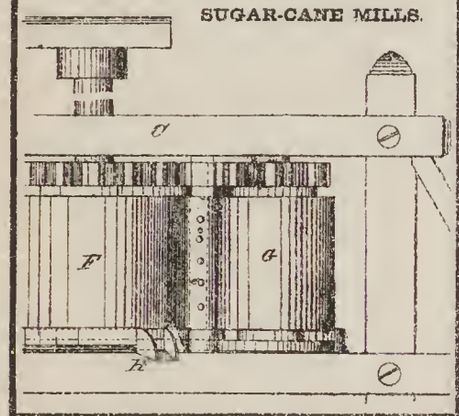


96,086, AUSTIN B. CULVER.
TICKET-CLIPS.

96,087, C. D. CUTTING.
SURGE-RELIEVER.

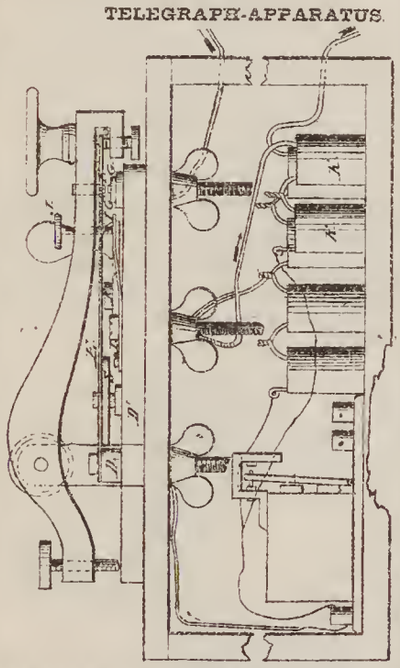


96,088, ANTHONY DEMARCE.
SUGAR-CANE MILLS.



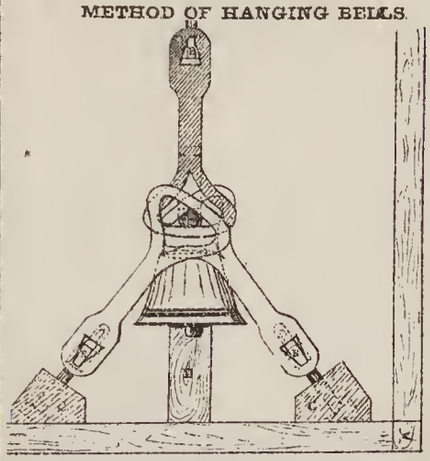
96,089, A. F. DÜCKWITZ.
AERATED MEDICINAL BEVERAGE.

96,090, CHARLES DURANT.
TELEGRAPH-APPARATUS.

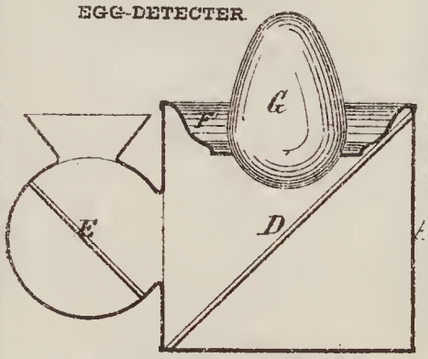


96,091, CHARLTON EDEN. **MACHINES FOR MAKING ROPE-MOULDINGS**

96,092, GILBERT EGUILLON.
METHOD OF HANGING BELLS.



96,093, FRANK J. EISENMAN.
EGG-DETECTER.



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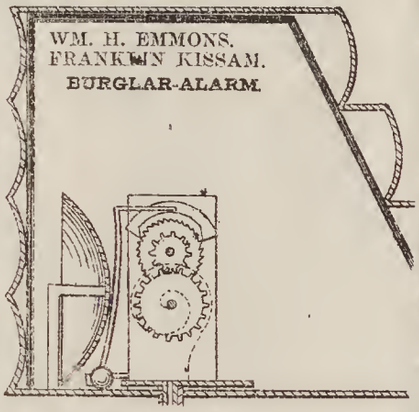
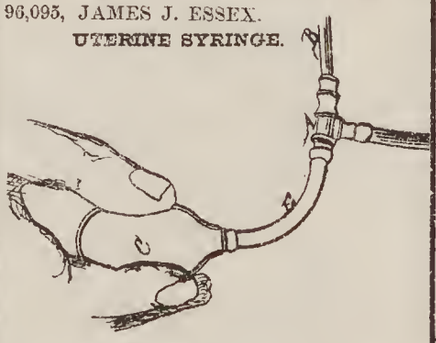
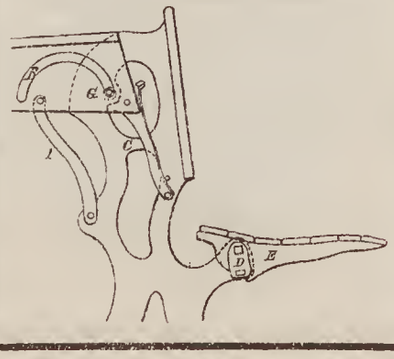
WM. H. EMMONS.
FRANKLIN KISSAM.
BURGLAR-ALARM.



96,095, JAMES J. ESSEX.
UTERINE SYRINGE.

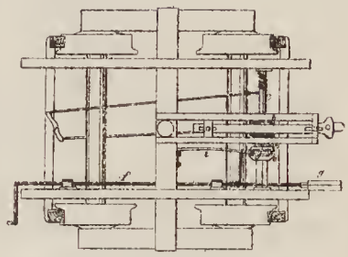


96,096, SAML. F. ESTELL.
FOLDING SCHOOL-DESK.

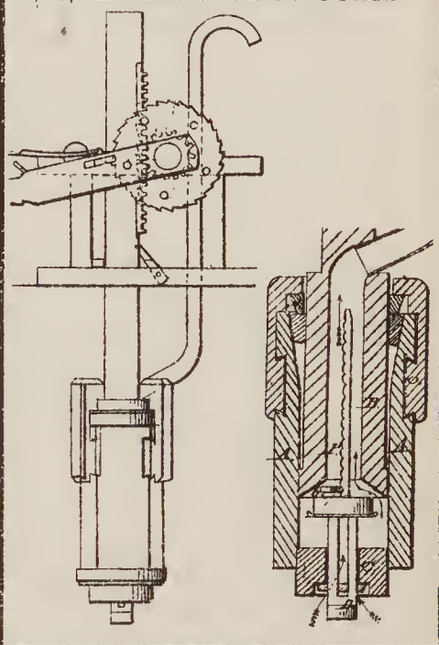


96,097, ALONZO FARRAR.
PROCESS OF OBTAINING USEFUL OIL FROM THE ACID RESIDUUM OF PETROLEUM.

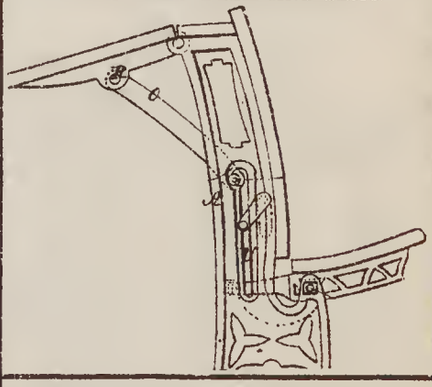
96,098, EUGENE DE B. FREER.
RAILWAY-CAR BRAKE.



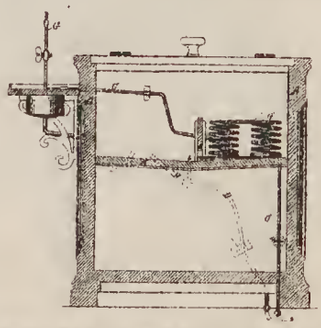
96,099, ALFONSO D. GATES. **PUMPS.**



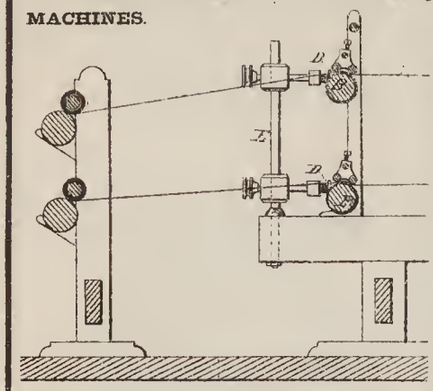
96,100, H. E. GILLET.
FOLDING DESK AND SEAT.



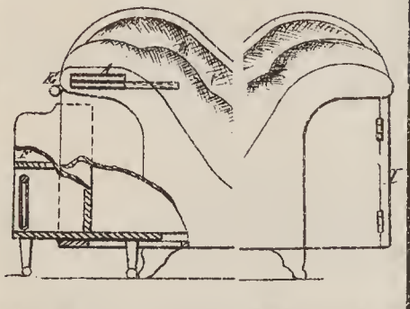
96,101, L. M. GOLDSBOROUGH.
REFRIGERATOR AND WATER AND WINE-COOLER.



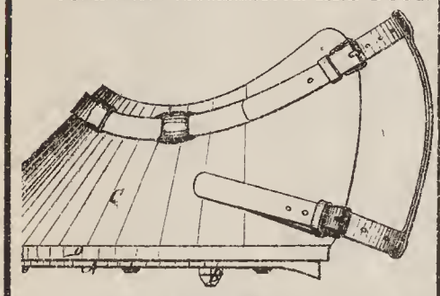
96,102, A. GOODSPEED.
APPARATUS FOR REMOVING ELECTRICITY FROM WOOL IN ROVING MACHINES.



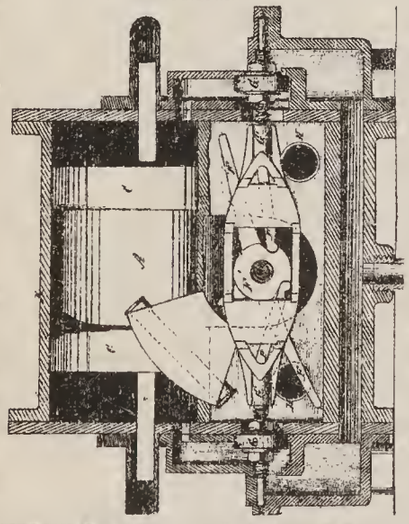
96,103, H. C. GRUBE.
SOFA-ATTACHMENTS.



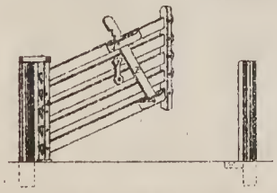
96,104, HENRY G. HAEDRICH.
COMBINED HORSESHOE AND BOOT.



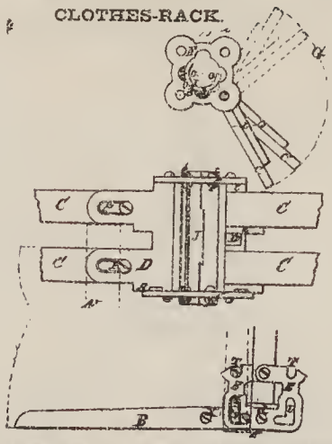
96,105, WM. HAMILTON.
FLUID-METERS.



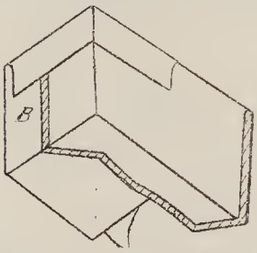
96,106, REUBEN HATCH, GATES.



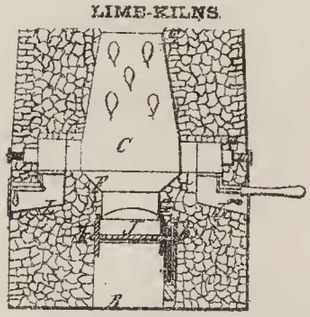
96,107, JAMES HATFIELD.
CLOTHES-RACK.



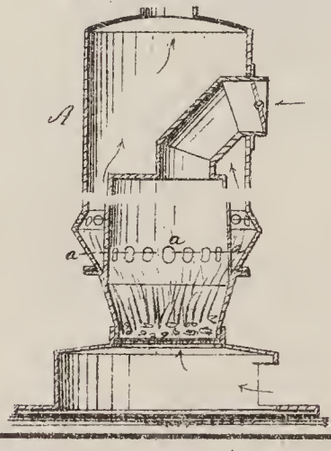
96,108, GEORGE M. HENDRICKSON.
PAPER BOX.



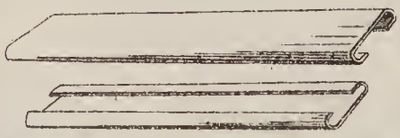
96,109, GEORGE HENSLER.
LIME-KILNS.



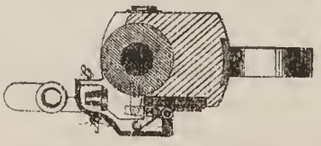
96,110. GEORGE W. HERRICK.
BASE-BURNING STOVE.

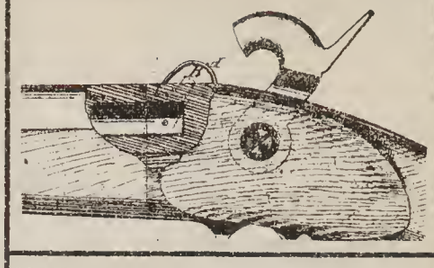


96,111, SELAH HILER. **STAIR-ROD.**

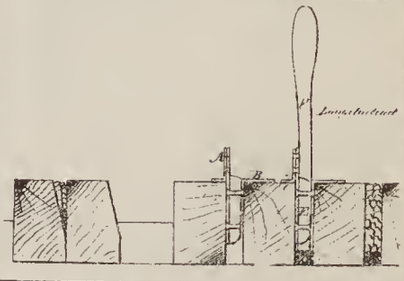


96,112, J. M. HILL, R. D. HAY.
NIPPLE-GUARDS FOR FIRE-ARMS.

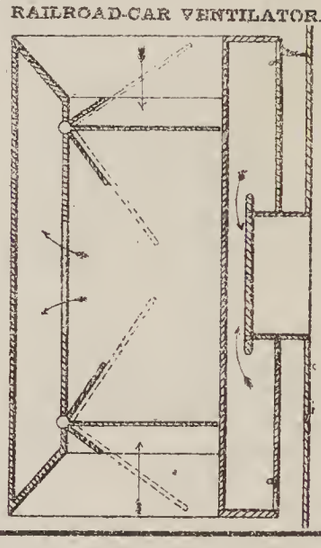




96,113, PHILIP HINKLE.
IMPLEMENT FOR LAYING WOOD PAVEMENT.



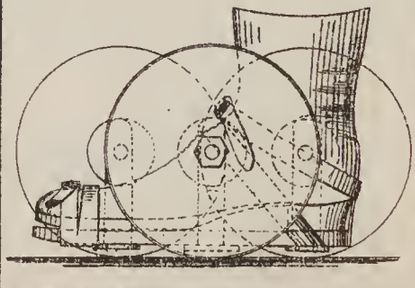
96,114, ROBERT HITCHCOCK.
RAILROAD-CAR VENTILATOR.



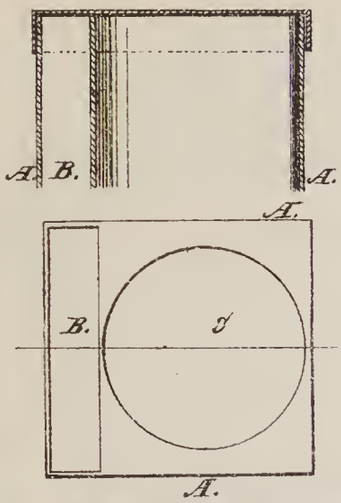
96,115, EDMUND HOLDEN.
FILTERING-SECTIONS FOR TUBE-WELLS.

96,116, VOR. A. HOUDAILLE. **BUNGS.**

96,117, N. W. HUBBARD.
PARLOR-SKATES.

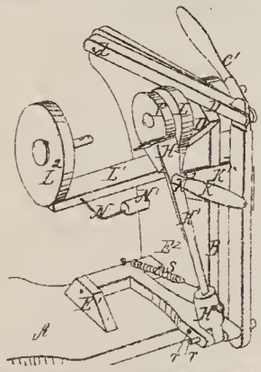


96,118, JAMES P. JONES.
MUFF AND COLLAR-BOX.

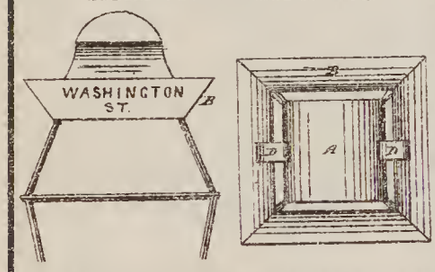


96,119, PHILIP P. JOSEF. **EGG-CARRIER.**

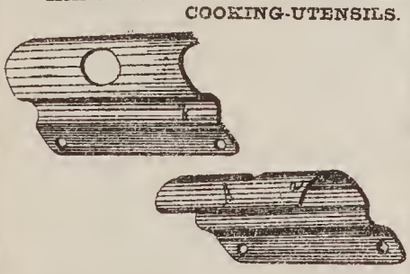
96,120 SAMUEL KEEN.
HEEL-CUTTING MACHINE.



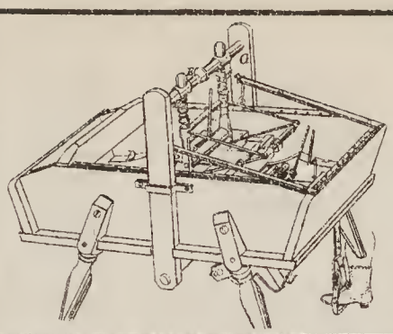
96,121, J. W. LARIMORE.
SIGNS FOR STREET-LAMPS.



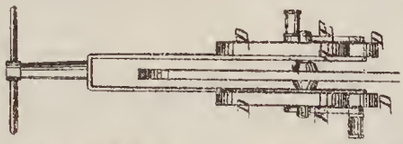
96,122, J. A. LAWSON.
HANDLES FOR PANS AND OTHER COOKING-UTENSILS.



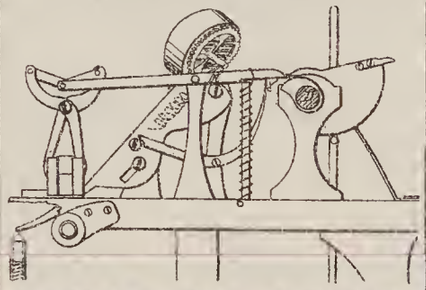
96,123, FABIUS H. LAWTON.
WASHING-MACHINE.



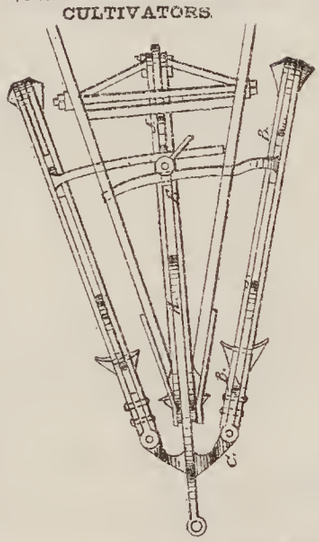
96,124, EDWD. A. LEWIS. **VELOCIPEDE.**



96,125, WILLIAM LIDDELL.
MACHINE FOR MAKING TAGS.

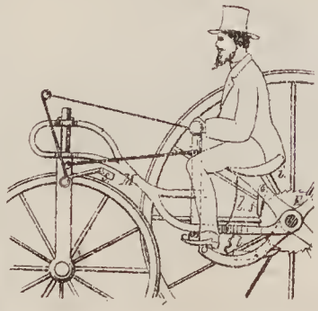


96,126, JAMES H. LOCKIE.
CULTIVATORS.

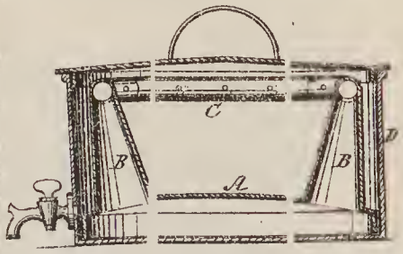


96,127, BN. LUDWIG LO PRESTI.
RAILWAY-TRACK.

96,128, GEORGE LOWDEN.
VELOCIPEDE.

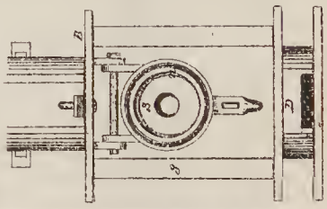


96,129, DANIEL LUCAS. **WASH-BOILER.**
JAMES LUCAS.

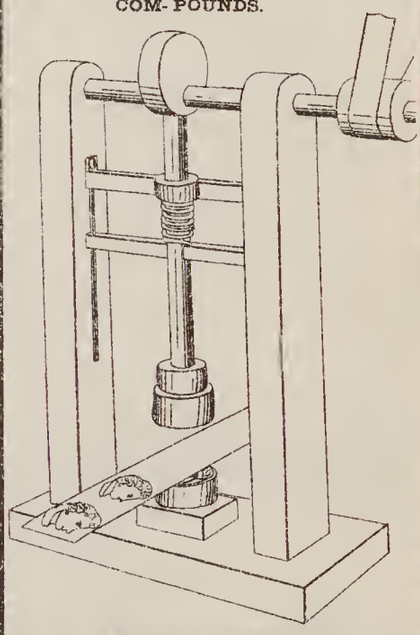


96,130, JOHN MARSTON.
RAILWAY-CAR COUPLING.

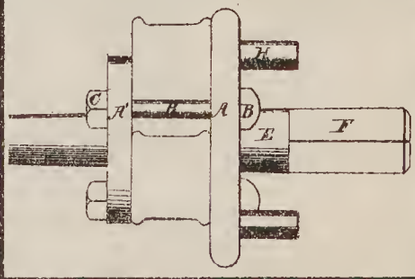
96,131, LOUIS MARTARESCHE.
MOULDING AND CASTING PIPE.



96,132, J. A. McCLELLAND.
MODE OF PRODUCING USEFUL ARTICLES FROM COLLODION AND ITS COM- POUNDS.

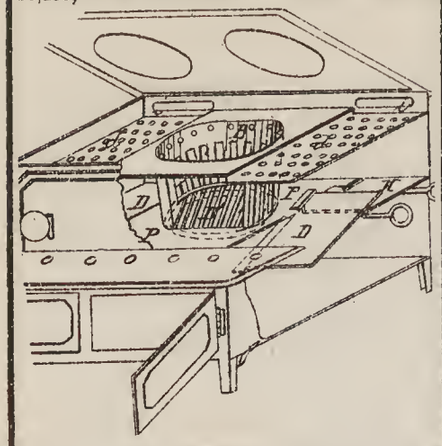


96,133, ROBERT McKENZIE.
TOOL FOR EXPANDING BOILER-TUBES.

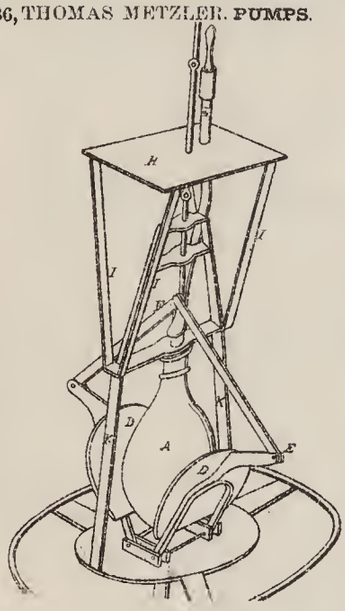


96,134, JAMES McMORRIES.
COMBINED KNIFE AND FORK.

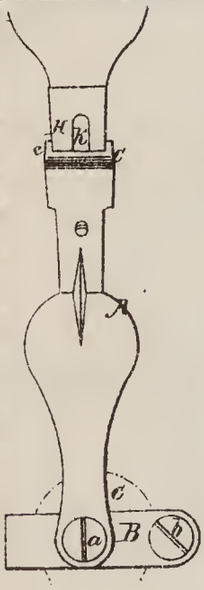
96,135, JOHN McNEIGHT. COAL-STOVE.



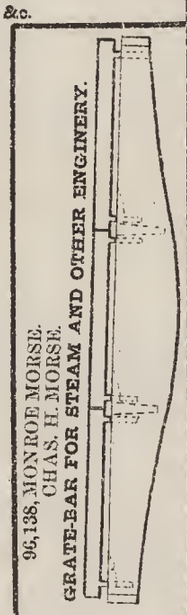
96,136, THOMAS METZLER. PUMPS.



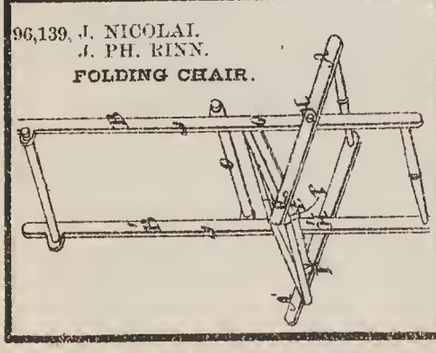
96,137, A. A. MIXER.
PEDALS FOR PIANOS, &c.



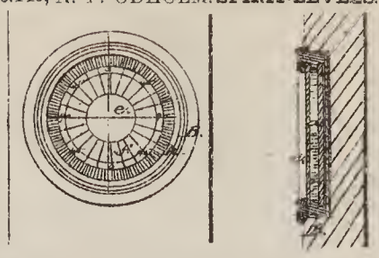
96,138, MONROE MORSE.
CHAS. H. MORSE.
GRATE-BAR FOR STEAM AND OTHER ENGINERY.



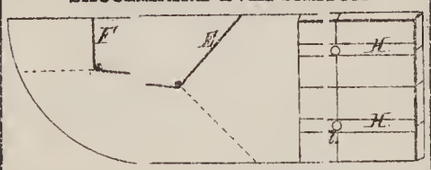
96,139, J. NICOLAI.
J. PH. RINN.
FOLDING CHAIR.



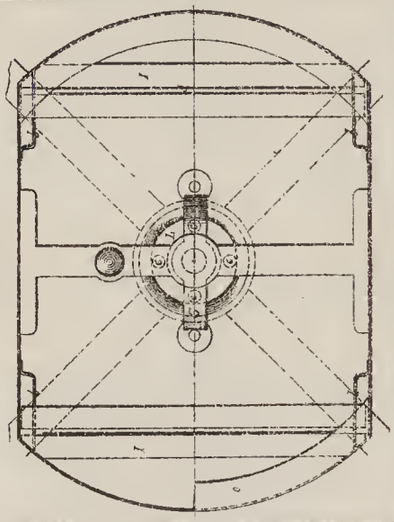
96,140, A. P. ODHOLM. SPIRIT-LEVELS.



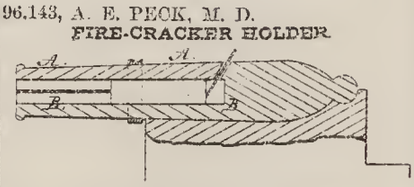
96,141, RICHARD ORFORD.
SACCHARINE EVAPORATOR.



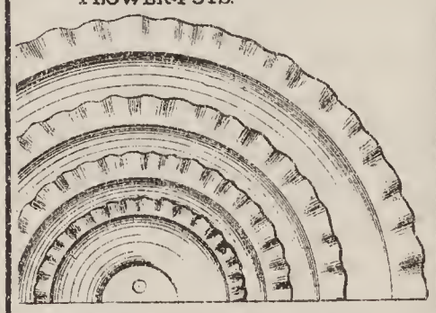
96,142, HENRY O. PEABODY.
CENTRIFUGAL MACHINE FOR EXTRACTING HONEY FROM THE COMB.



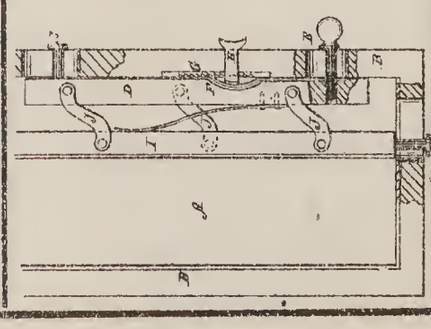
96,143, A. E. PECK, M. D.
FIRE-CRACKER HOLDER.



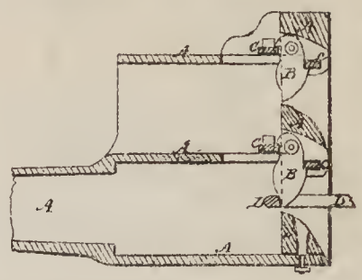
96,144, BENJ. W. PUTNAM
FLOWER-POTS.



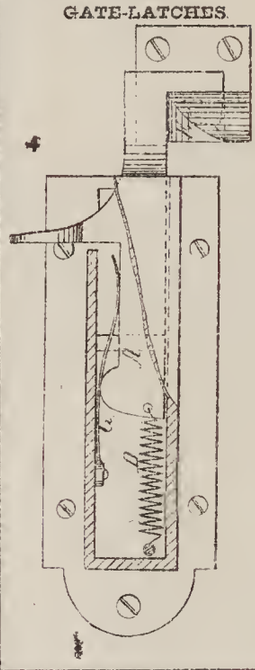
96,145, WILLIAM QUAIL.
PRINTERS' GALLEYS.



96,146, MATTHEW QUINN.
RAILWAY-CAR COUPLING.

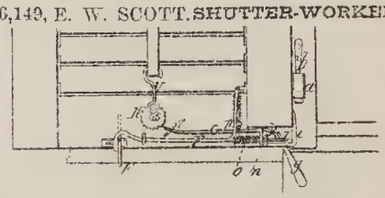


96,147, F. M. RANONS.
GATE-LATCHES.

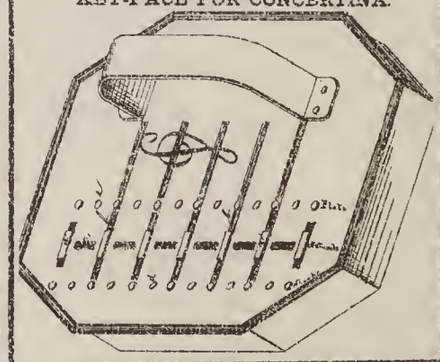


96,148, CHRISTIAN S. RAUH.
COMPOUND FOR MAKING WATER-PROOF PAPER.

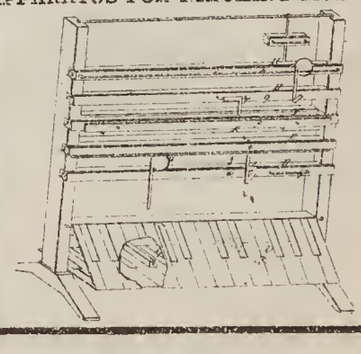
96,149, E. W. SCOTT. SHUTTER-WORKER.



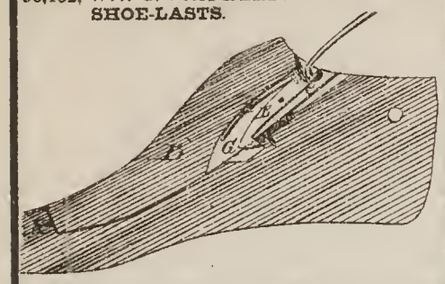
96,150, L. A. SEWARD.
KEY-FACE FOR CONCERTINA.

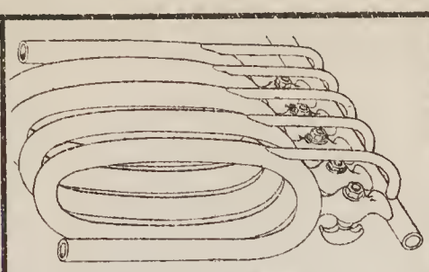


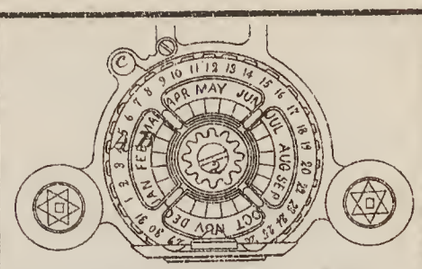
96,151, L. A. SEWARD.
APPARATUS FOR TEACHING MUSIC, &c.



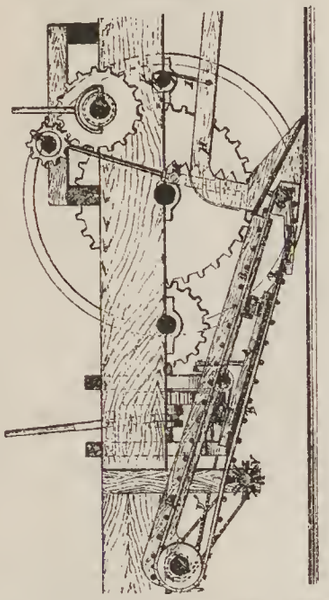
96,152, WM. C. SHIPHERD.
SHOE-LASTS.



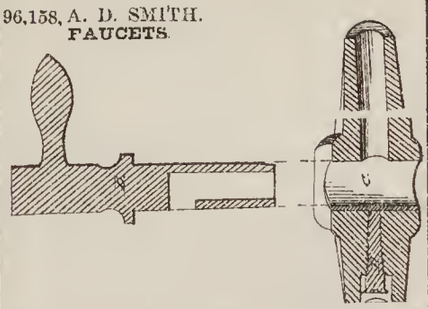




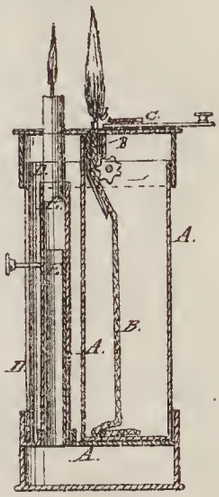
96,153, JOSEPH J. SINGLEY.
POTATO-DIGGERS



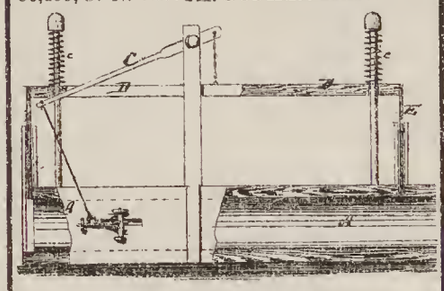
96,158, A. D. SMITH.
FAUCETS.



96,163, AUGUST STEINBÖK.
MATCH-SAFES.

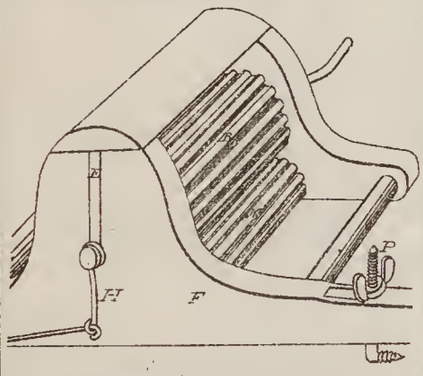


96,159, D. N. SMITH. **GOPHER-TRAP.**

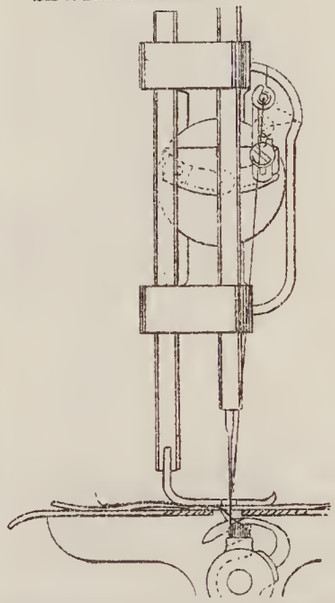


96,164 E. H. STEWART. **HALTER-CLASP.**

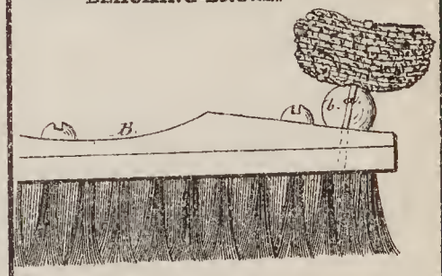
96,154, R. H. SIPES.
WASHING-MACHINE



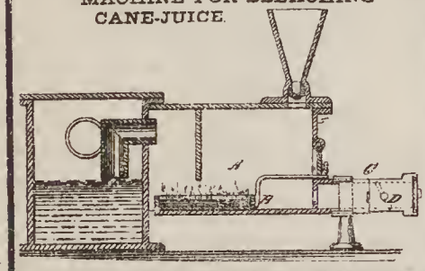
96,160, EARLE HARRY SMITH.
SEWING-MACHINE.



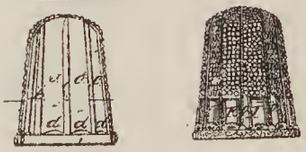
96,165, AUGUSTA N. THOMPSON
BLACKING-BRUSH.



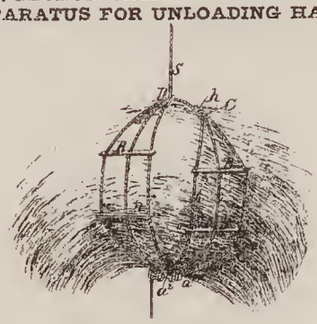
96,155, EVAN SKELLY.
MACHINE FOR BLEACHING CANE-JUICE.



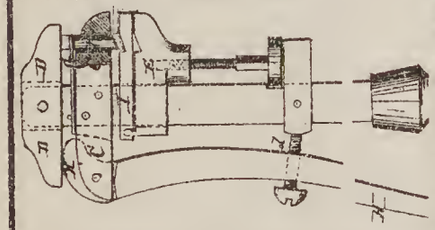
96,166, THEODORE R. TIMBY.
THIMBLES.



96,161, GEORGE SMITH.
APPARATUS FOR UNLOADING HAY.



96,156, H. SLOAT. **SAW-SETS.**



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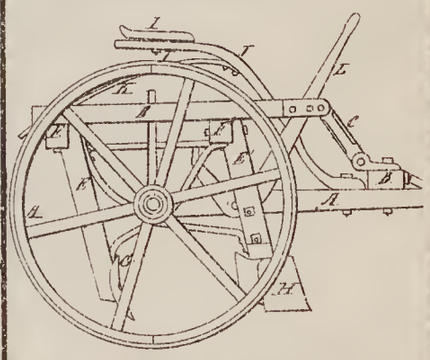
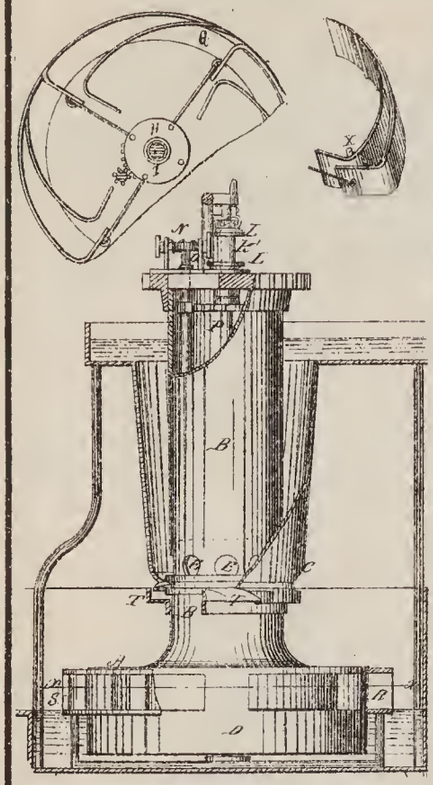
CORN-CULTIVATORS.



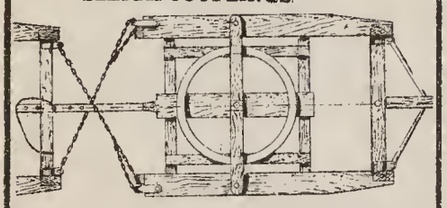
96,162, R. HALE SMITH.
HAND-STAMPS.

96,157, EDWARD SMEETH.
CONDENSER FOR ALCOHOL-STILLS.

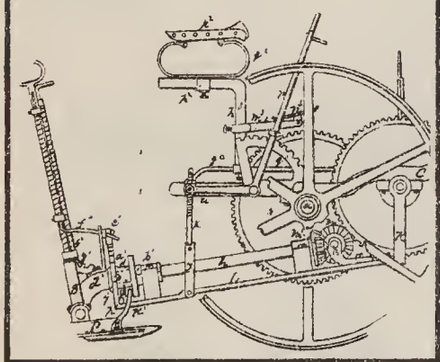
96,168, B. W. TUTTLE. **WATER-WHEELS.**



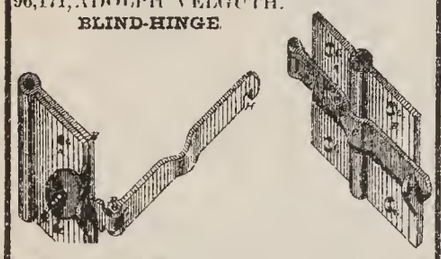
96,169, WM. E. VAN SCHAICK. **SLEIGH-COUPLINGS.**



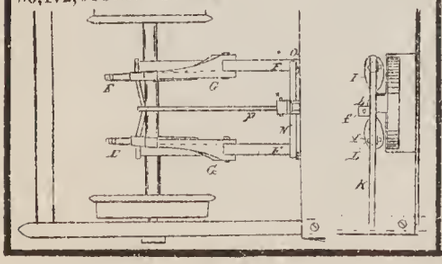
96,170, JOHN P. VAN SICKLE. **HARVESTERS.**



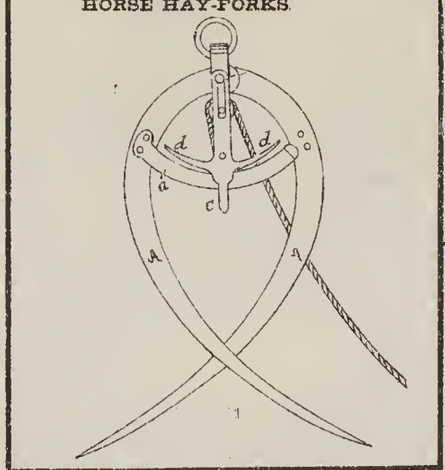
96,171, ADOLPH VELGUTH. **BLIND-HINGE.**



96,172, MOSES N. WARD. **CAR-STARTER.**

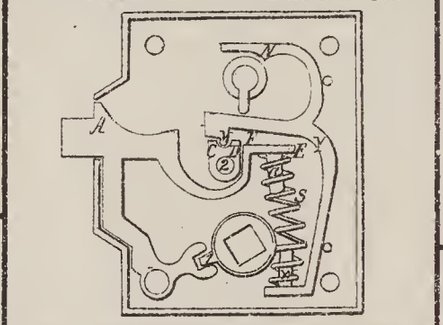


96,173, C. E. WARNER. **HORSE HAY-FORKS.**

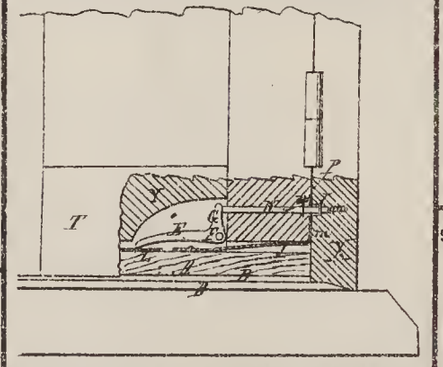


96,174, JOHN J. WATSON. A. W. WHITE. **CHIN-REST FOR VIOLINS.**

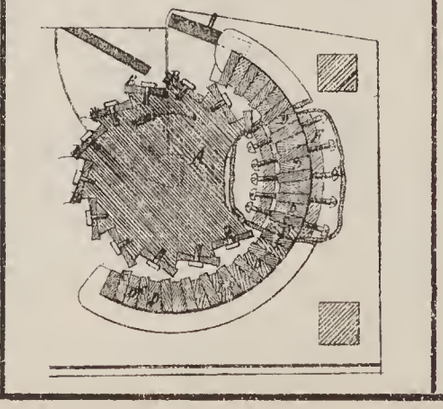
96,175, THEOPHILUS WEAVER. **COMBINED LATCH AND LOCK.**



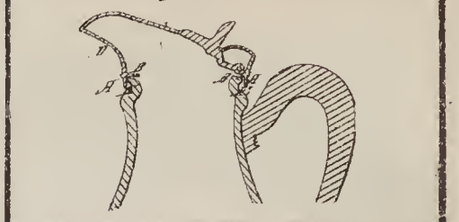
96,176, J. R. WEBBER. **WEATHER-STRIP.**



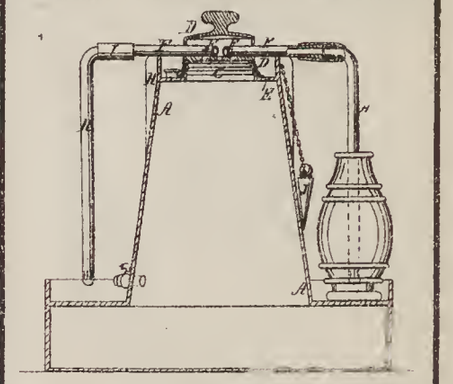
96,177, FRANK A. WELLS. **COTTON-SEED HULLING-MACHINES.**



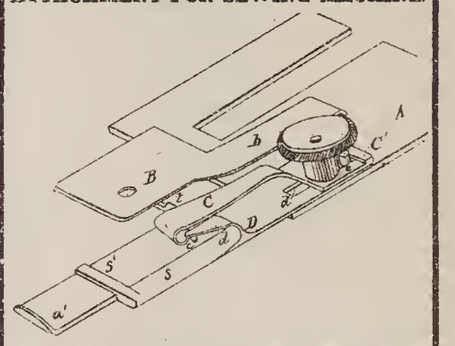
96,178, HOMER WRIGHT. **ATTACHING TOPS TO JUGS, CRUETS, &c.**



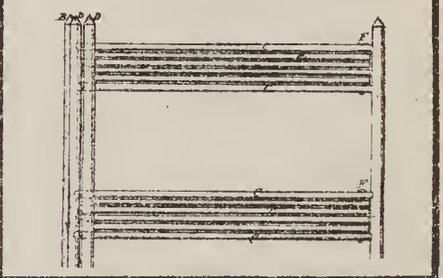
96,179, C. C. WILLIAMS. **APPARATUS FOR PRESERVING FRUIT.**



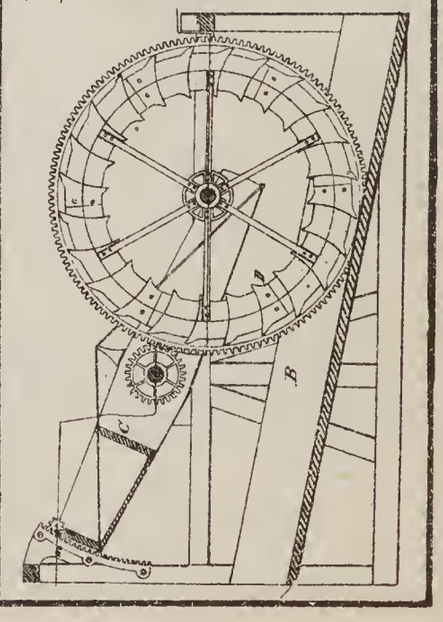
96,180, ENOCH S. YENTZER. **ATTACHMENT FOR SEWING-MACHINE.**



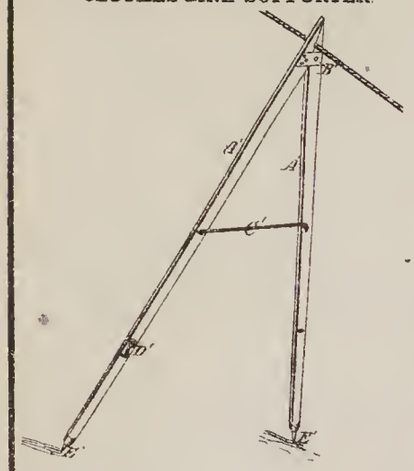
96,181, L. J. ADAMS. **CLOTHES-DRIER.**



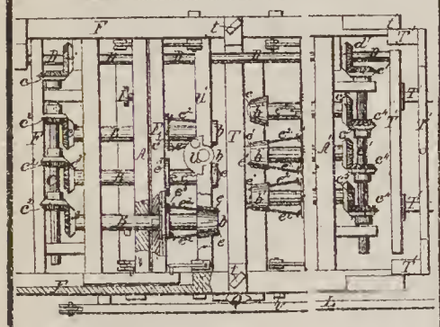
96,182, J. S. ANDERSON **WATER-WHEELS.**



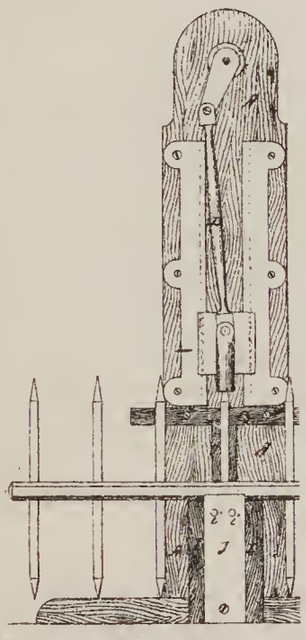
96,183, JOHN ANDREWS.
CLOTHES-LINE SUPPORTER.



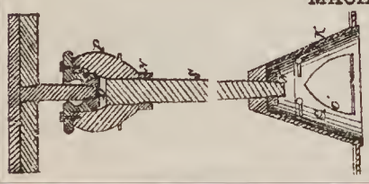
96,184, OLNEY ARNOLD.
MACHINES FOR CUTTING CORK.



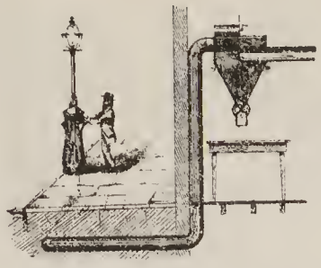
96,185, A. T. BARNES.
N. M. BARNES.
MACHINE FOR DRIVING RAKE-TEETH.



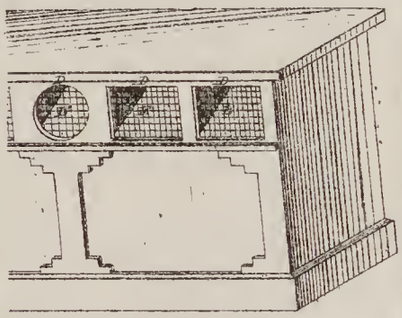
96,186, HENRY W. BARTOL.
CENTRIFUGAL SUGAR-DRAINING MACHINE.



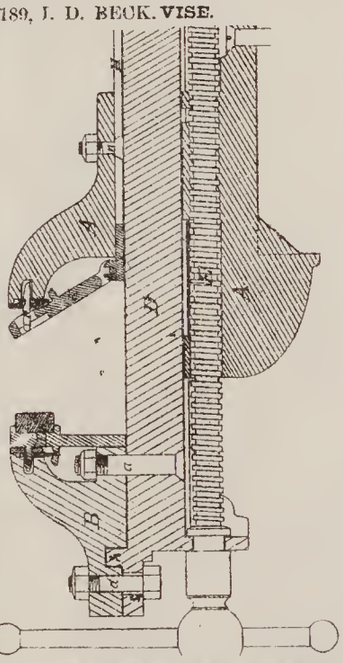
96,187, A. ELY BEACH.
METHOD OF TRANSPORTING LETTERS AND PARCELS.



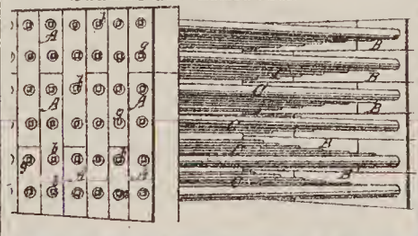
96,188, AARON BEARDSLEY.
SHOW-COUNTER.



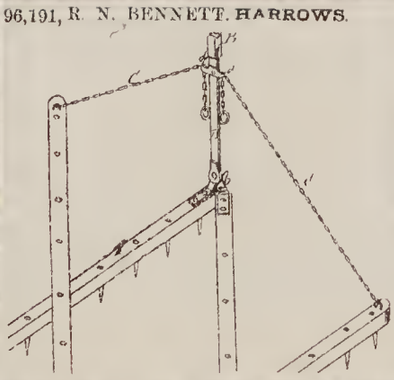
96,189, J. D. BECK. **VISE.**



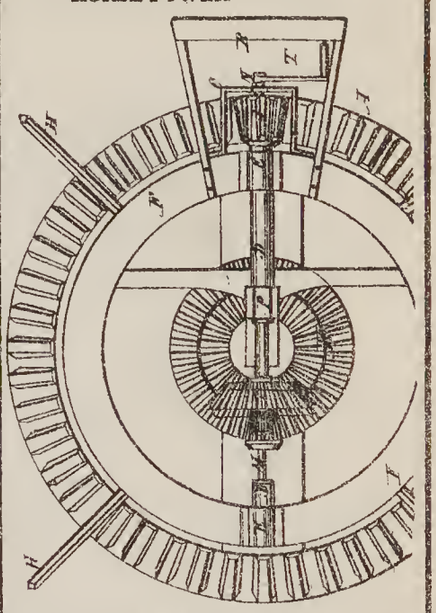
96,190, CALVIN G. BEITEL.
STEAM-GENERATORS.



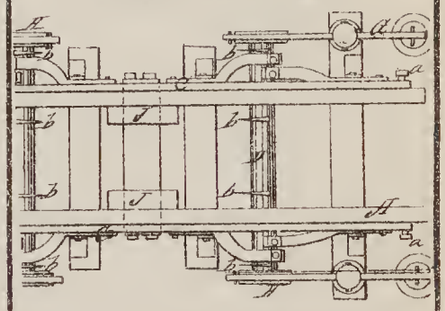
96,191, R. N. BENNETT. **HARROWS.**



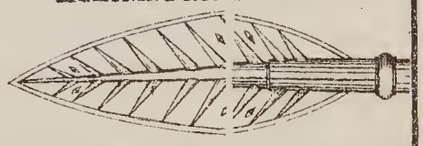
96,192, WILLIAM N. BERKELEY.
HORSE-POWER.



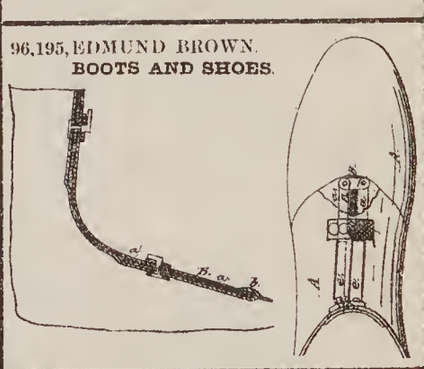
96,193, JOEL BOWMAN.
JOHN B. OVERMYER.
RAILWAY CATTLE-GATE.



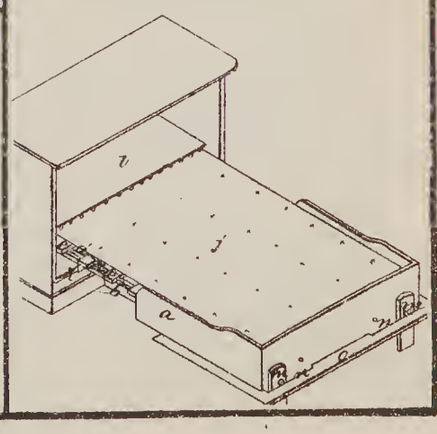
96,194, JOHN F. BOYNTON.
LIGHTNING-ROD POINTS.



96,195, EDMUND BROWN.
BOOTS AND SHOES.

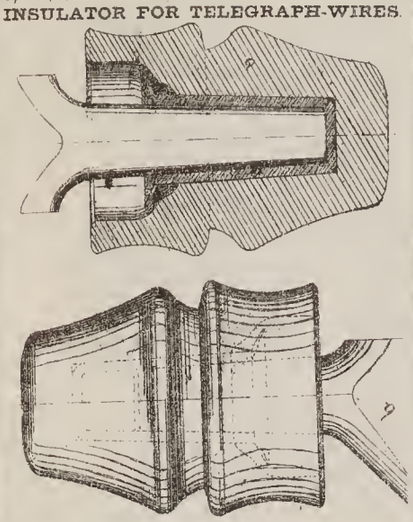


96,196, SANFORD S. BURR
CABINET-BEDSTEAD.

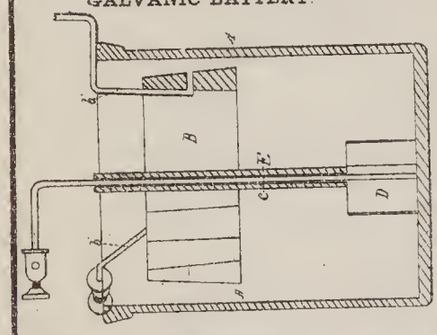


96,197, CHAS. A. BUSH.
MODE OF CLEANING GAS-RETORTS

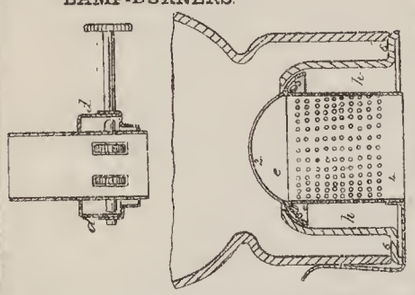
96,198, CHAS. A. BUSH.
INSULATOR FOR TELEGRAPH-WIRES.



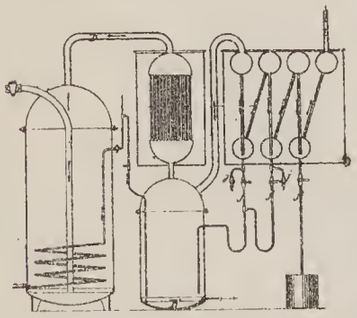
96,199, JEAN ARMAND CALLAUD.
GALVANIC BATTERY.



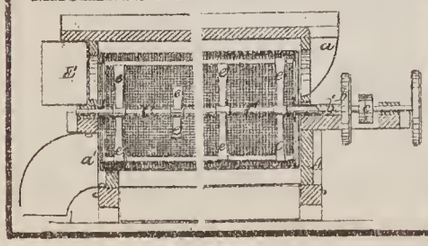
96,200, GEO. H. CHINNOCK.
LAMP-BURNERS.



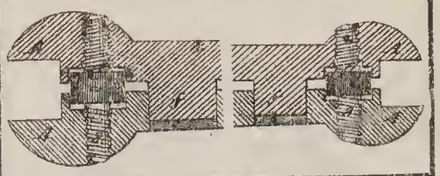
96,201, GEORGE CLARK.
DISTILLING AND TREATING ALCOHOLIC SPIRITS.



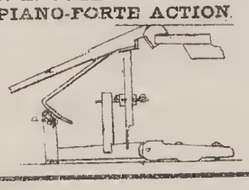
96,202, LEWIS T. CLEMENT.
MACHINES FOR CLEANING COTTON.



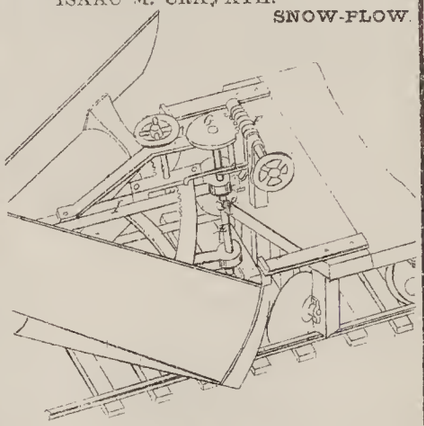
96,203, LORING COES. WRENCH.



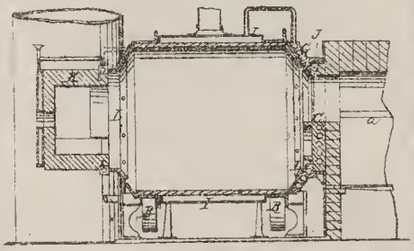
96,204, B. E. COLLEY.
PIANO-FORTE ACTION.



96,205, MYRTILLUS A. CRAVATH.
ISAAC M. CRAVATH.
SNOW-PLOW.

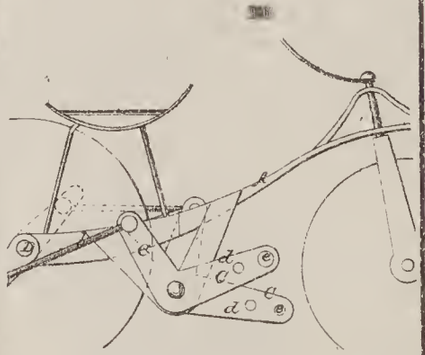


96,206, SAMUEL DANKS.
ROTARY PUDDLING-FURNACES.

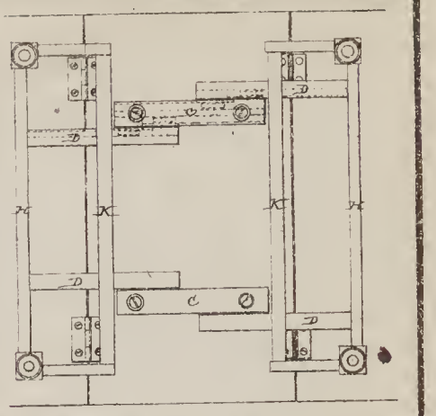


96,207, H. M. DARLING. LATHE-CHUCK.

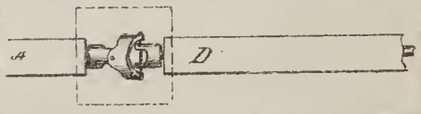
96,208, CHARLES E. DAYTON
VELOCIPEDE.



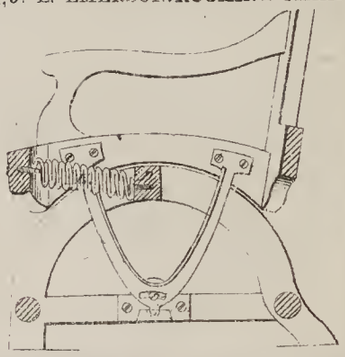
96,209, JACOB DOURSON.
EXTENSION-TABLE.



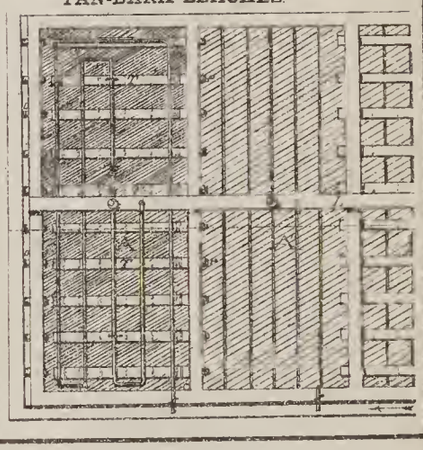
96,210, MILTON L. DRAKE.
SHAFT AND COUPLING-SHIELD.



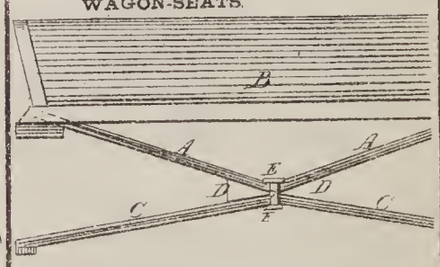
96,211, J. E. EMERSON. ROCKING-CHAIR.



96,212, LEWIS C. ENGLAND.
TAN-BARK LEACHES.



96,213, W. R. ENGLISH.
JASON McCLURE.
WAGON-SEATS.



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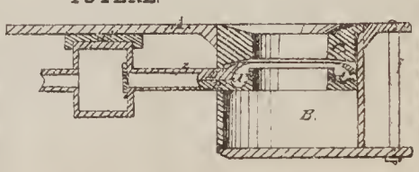
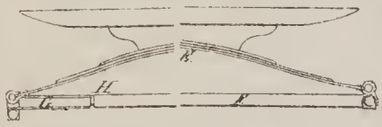


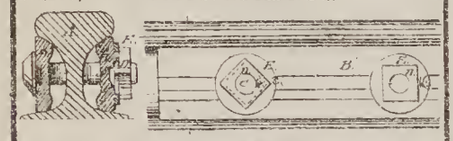
96,215, JAMES M. FERGUSON.
MEDICAL COMPOUND FOR THE CURE OF FEVER AND AGUE.

96,216, E. R. FERRY.
SPRING-PERCH FOR CARRIAGES.



96,217, KASSON FRAZER.
MODE OF PLATING, COATING, AND ORNAMENTING ARTICLES OF IRON AND STEEL.

96,218, P. L. GIBBS. LOCK-NUT.



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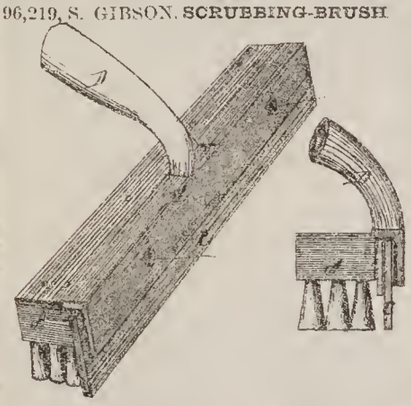
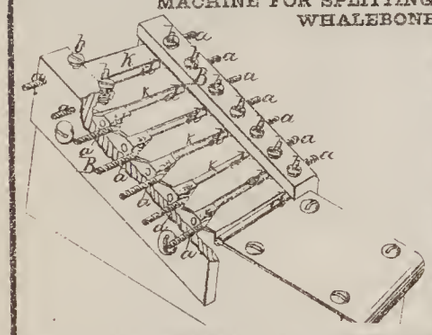
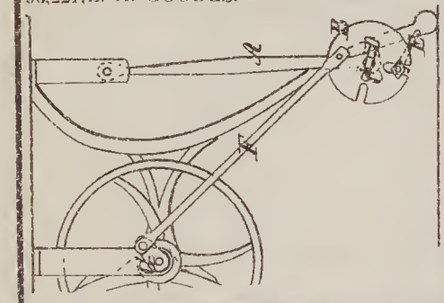


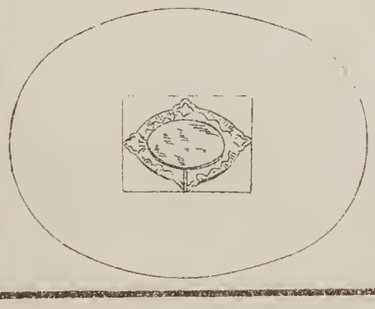
96,220, NATHAN GODDARD.
MACHINE FOR SPLITTING WHALEBONE.

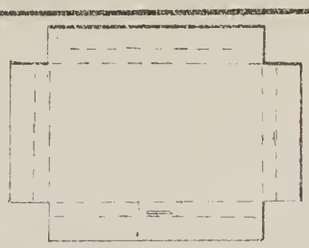


96,221, E. A. GOODES. TREADLE-MOTION.

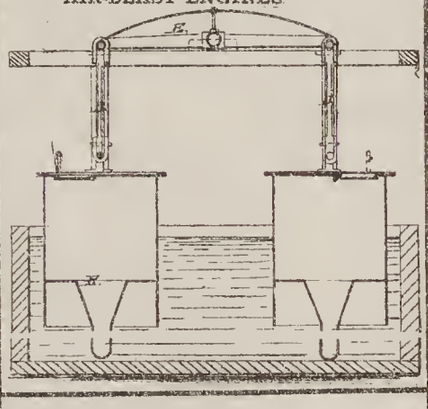


96,222, SOLOMON H. GREENBAUM.
HAT-TIPS.

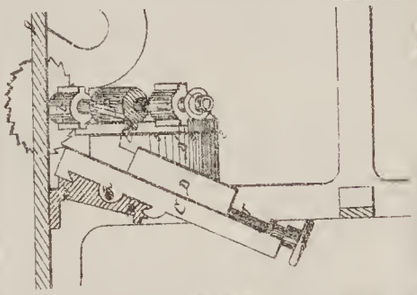




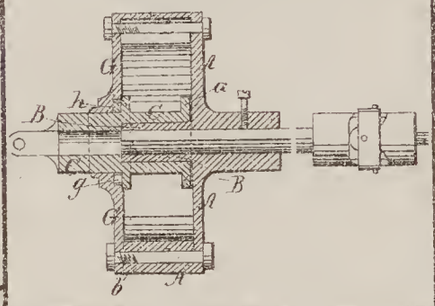
96,223, JOHNN GRIMM.
AIR-BLAST ENGINES.



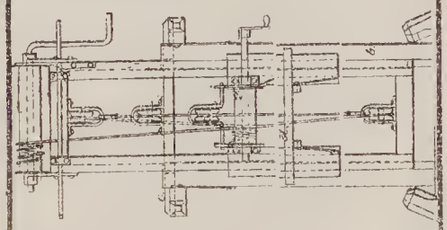
96,224, J. P. GROSVENOR.
METHOD OF ADJUSTING CIRCULAR SAWS.



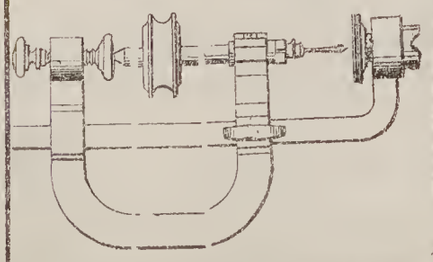
96,225, JOHN A. HAFNER.
HORSE-POWER CONNECTION.



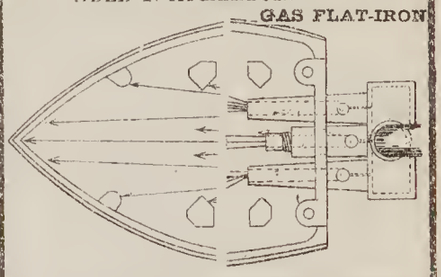
96,226, PETER L. HAINS.
EXTENSION-SCAFFOLD.



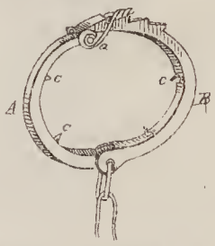
96,227, JOHN HALE.
DRILLING-MACHINE.



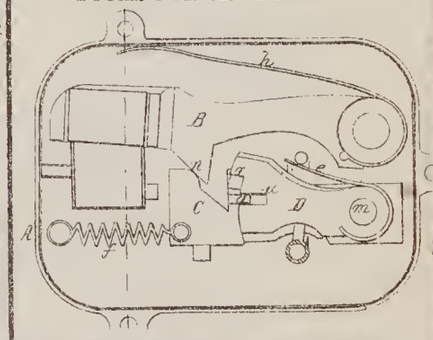
96,228, ALBERT HALLOWELL.
ABEL T. ATHERTON.
GAS FLAT-IRON.



96,229, CORNELIUS A. HARING.
BAG-FASTENERS.

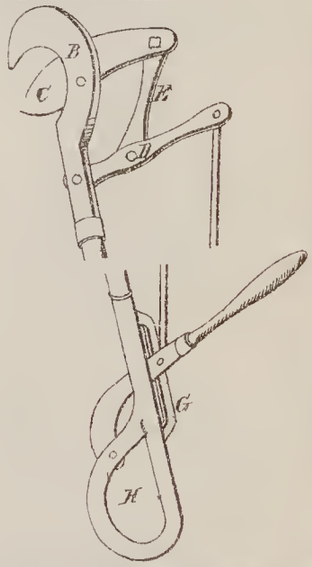


96,230, A. V. HARTWELL.
LOCKS FOR CAR-DOORS.

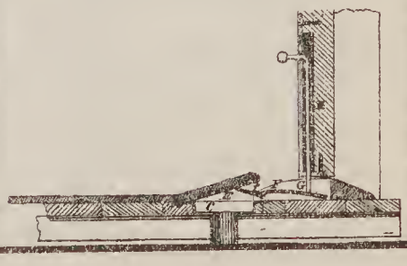


96,231, GEORGE W. HATFIELD.
MANUFACTURE OF PUTTY.

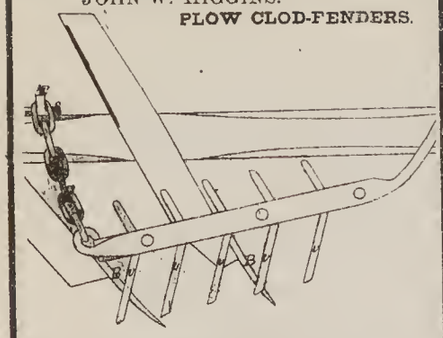
96,232, VIRGIL HAYES.
LEWIS CUATT.
PRUNING-SHEARS.



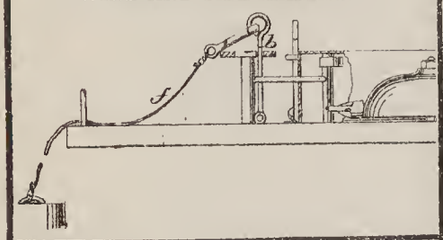
96,233, JOHN A. HEMBERGER.
GUTTER FOR DOOR-SILLS.



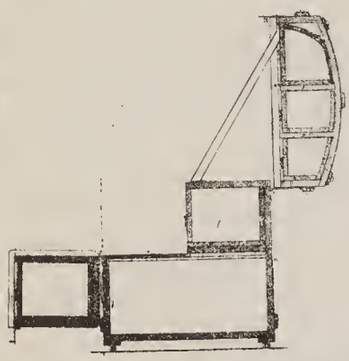
96,234, JAMES HIGGINS.
JOHN W. HIGGINS.
PLOW CLOD-FENDERS.



96,235, GEO. M. HOFFMAN.
PETER HERMAS, JR.
WIND AND TIDE-ALARMS.

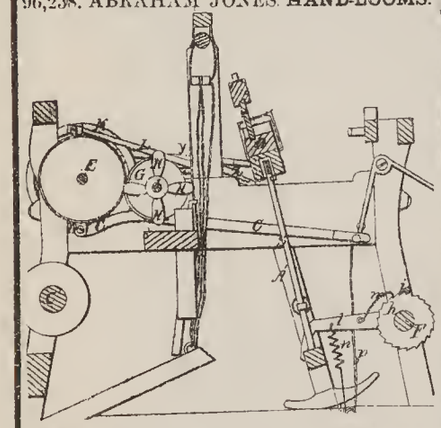


96,236, THOMAS HUNT.
TRAVELLING-TRUNKS.



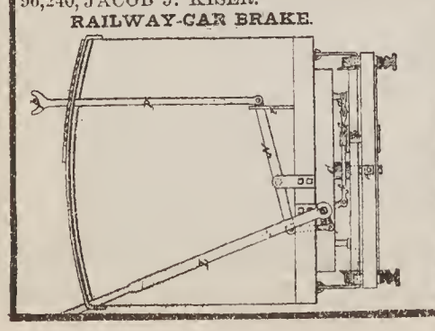
96,237, JOHN JOHNSON.
COMPOUND FOR PACKING.

96,238. ABRAHAM JONES. **HAND-LOOMS.**



96,239, VINCENT E. KEEGAN,
PROCESS OF REDUCING WOOD AND WOODY FIBERS FOR PAPER-PULP.

96,240, JACOB J. KISER.
RAILWAY-CAR BRAKE.

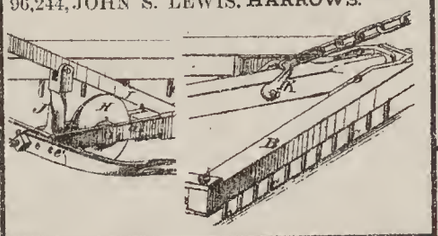


96,241, WILLIAM KOEHLER.
METHOD OF RECOVERING GREASE FROM WASTE SOAP-LIQUORS.

96,242, CH. LAUTH.
COLORING-MATERIAL FOR DYEING AND PRINTING.

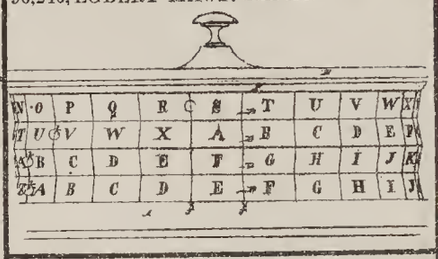
96,243, C. EDWARDS LESTER.
FUEL FOR METALLURGIC PURPOSES.

96,244, JOHN S. LEWIS. **HARROWS.**

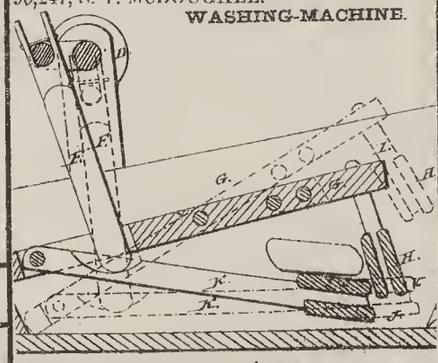


96,245, WM. R. LOUNT.
COMPOUND FOR TREATING THE HUMAN HAIR.

96,246, EGBERT MACY. **SAFES.**

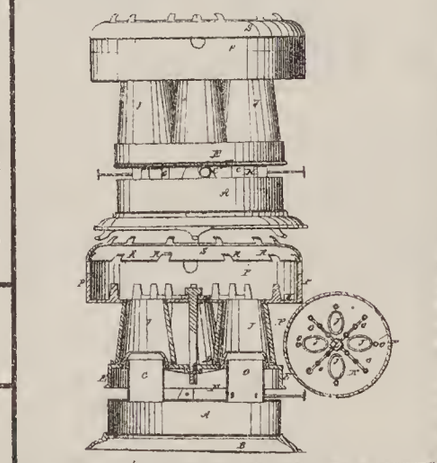


96,247, S. T. McDOUGALL.
WASHING-MACHINE.



96,248, WM. MILLS.
EXPLOSIVE COMPOUND.

96,249. ROBERT B. MITCHELL.
KEROSENE-STOVE.



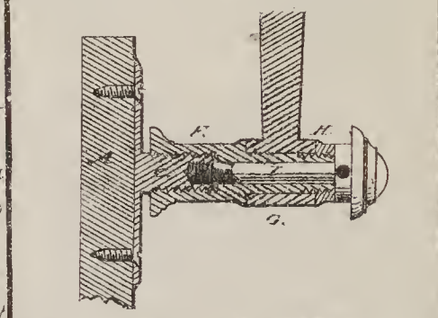
96,250, F. B. MORSE.
DIE FOR FORMING THILL-IRONS.

96,251, F. B. MORSE.
SERIES OF DIES FOR FORMING KING-BOLTS.

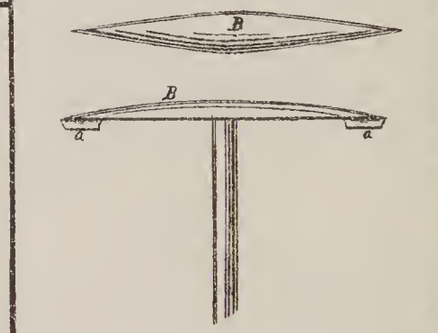
96,252, F. B. MORSE. **CARRIAGE-CLIPS**

96,253. F. B. MORSE.
SLAT-IRON FOR CARRIAGES.

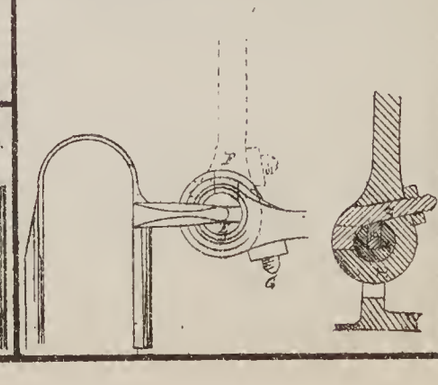
96,254, F. B. MORSE.
TOP-PROP FOR CARRIAGES.



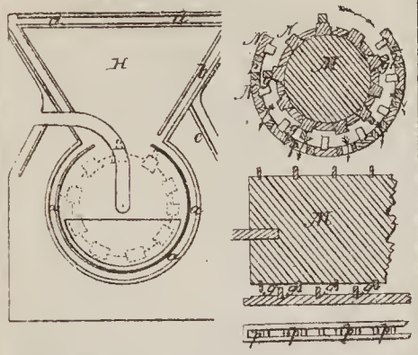
96,255, F. B. MORSE.
BOLT FOR WHIFFLETREES.



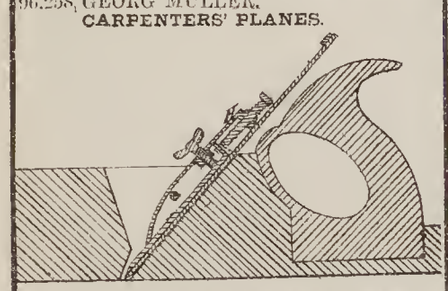
96,256, F. B. MORSE.
CARRIAGE-SHACKLE.



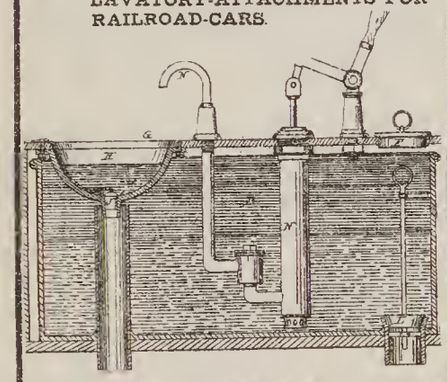
96,257, CHARLES MÜLLER.
CIGAR-MACHINE.



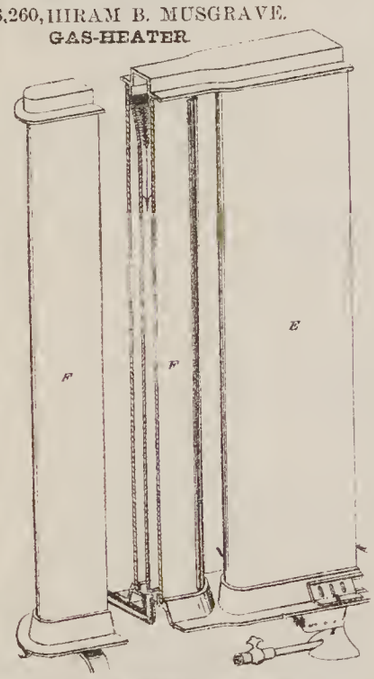
96,258, GEORG MÜLLER.
CARPENTERS' PLANES.



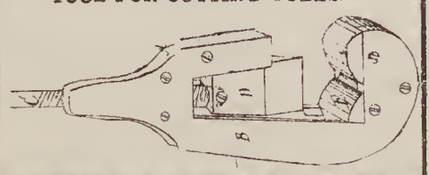
96,259, JOHN G. MURDOCK.
LAVATORY-ATTACHMENTS FOR RAILROAD-CARS.



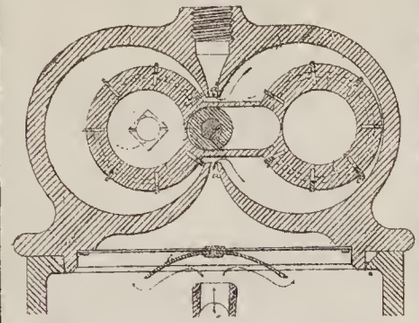
96,260, HIRAM B. MUSGRAVE.
GAS-HEATER.

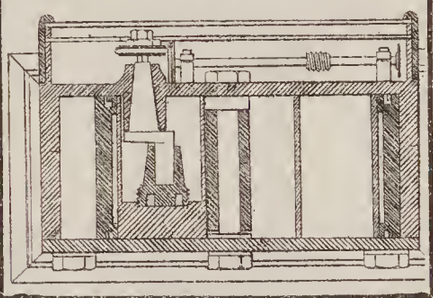


96,261, THOS. NELSON.
TOOL FOR CUTTING TUBES.

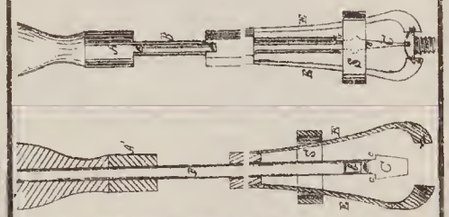


96,262, ALF. C. PILLINER.
J. C. HILL.
STEAM-ENGINERY FOR MOTIVE-POWER.

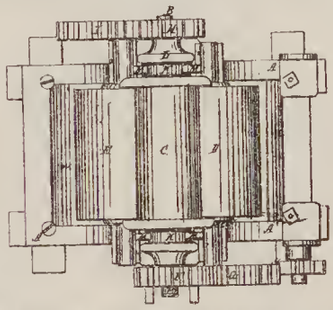




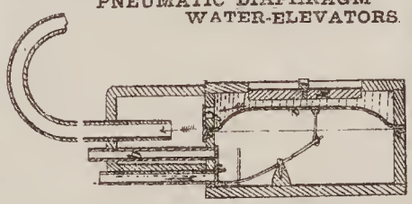
96,263, J. C. PINNER.
SCREW-DRIVER.



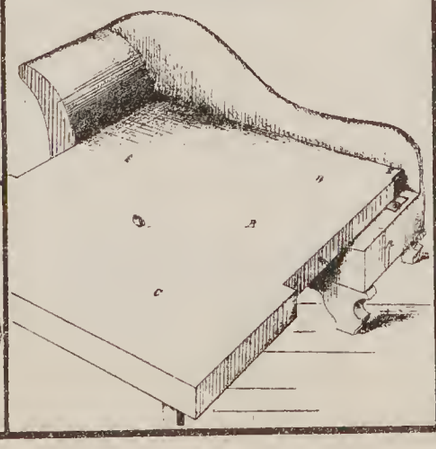
96,264, D. J. POWERS.
HENRY B. STEVENS.
SUGAR AND SORGHUM-MILL.



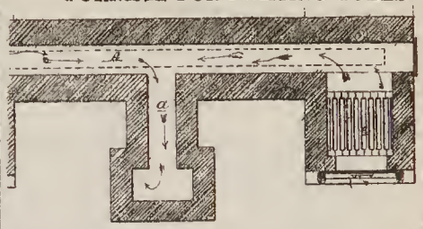
96,265, SILAS G. RANDALL.
PNEUMATIC DIAPHRAGM WATER-ELEVATORS.



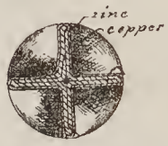
96,266, R. M. REEBY.
LOUNGE AND SOFA-BED.



96,267, PATRICK REILLY.
FURNACE FOR HEATING TUBES.

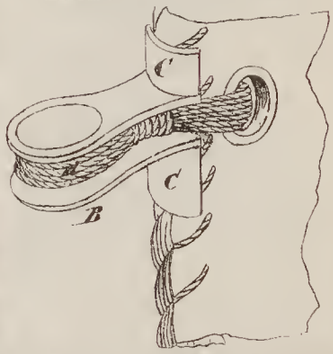


96,268, WILLIAM S. REYBURN.
F. J. MARTIN.
LIGHTNING-RODS.

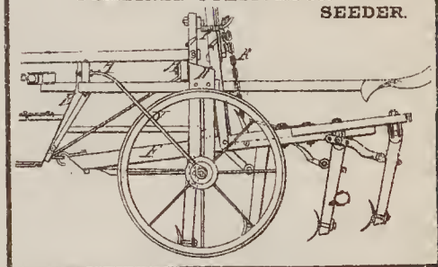


96,269, LAWRENCE his × mark ROY.
MEDICINE FOR CANCER.

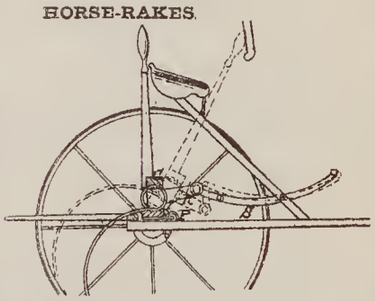
96,270, DANIEL W. SAWYER.
LACE-LEADER FOR SAILS.



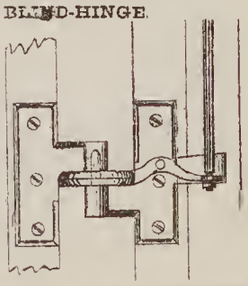
96,271, SILAS C. SCHOFIELD.
COMBINED CULTIVATOR AND SEEDER.



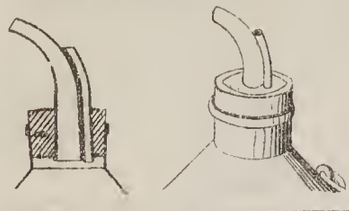
96,272, SILAS C. SCHOFIELD.
A. JUDSON WISE.
HORSE-RAKES.

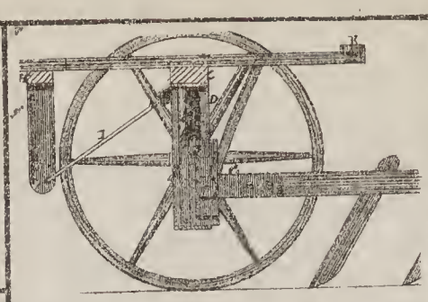


96,273, ALFRED L. SEABURY.
DAVIDSON MORRIS.
BLIND-HINGE.

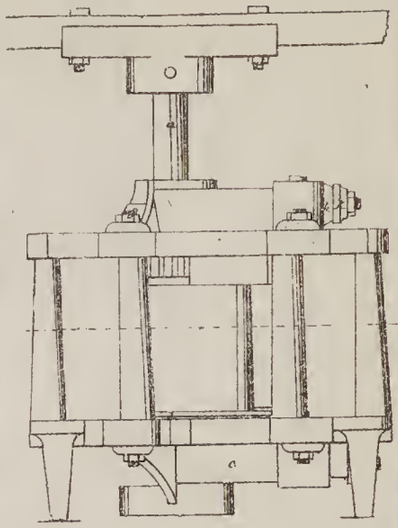


96,274, CONRAD SEIMEL.
OIL-CAN STOPPERS.

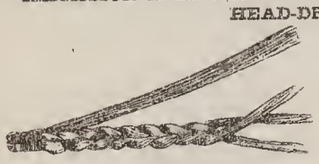




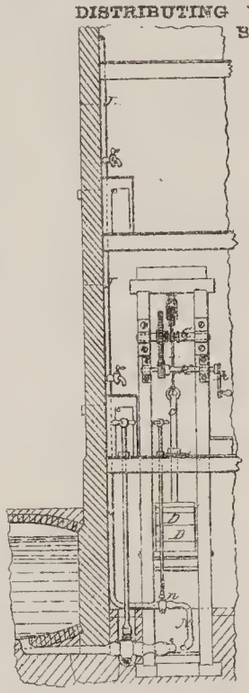
96,283, H. B. STEVENS.
D. J. POWERS.
CANE-MILLS.



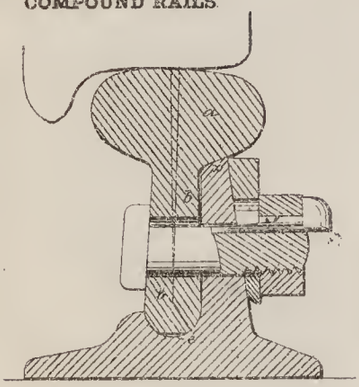
96,275, LOUISE F. SHAW.
IMITATION HAIR FOR LADIES' HEAD-DRESS.



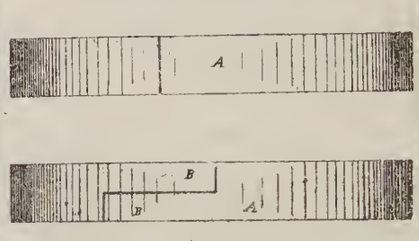
96,280, JAMES L. SMITH.
APPARATUS FOR ELEVATING AND DISTRIBUTING WATER IN BUILDINGS.



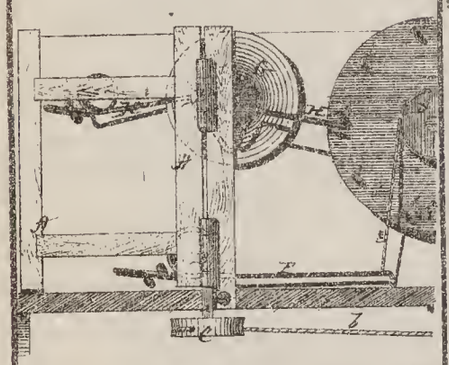
96,276, E. R. SHEPARD.
COMPOUND RAILS.



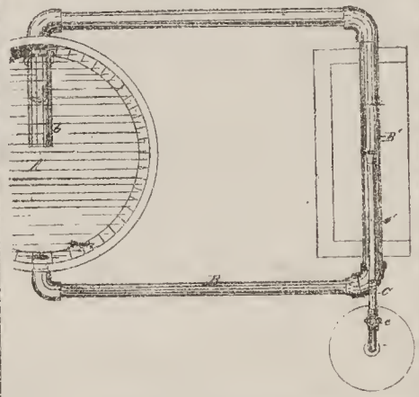
96,284, EDWARD SULLIVAN.
STEAM-ENGINE-PISTON PACKING.



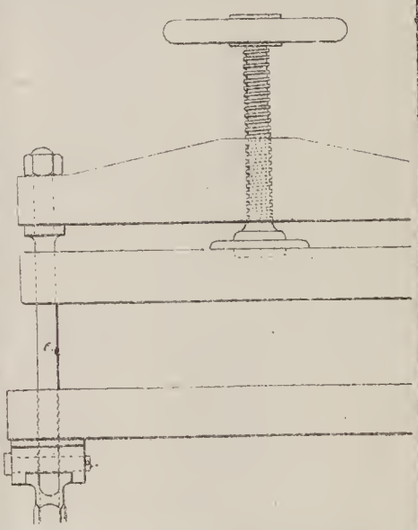
96,277, ISAAC SILVERNAIL.
BURGLAR-ALARM.



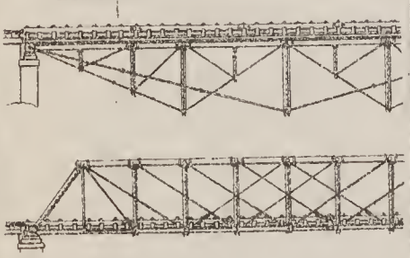
96,281, M. M. SMITH.
SELF-FEEDING BOILING AND EVAPORATING-APPARATUS.



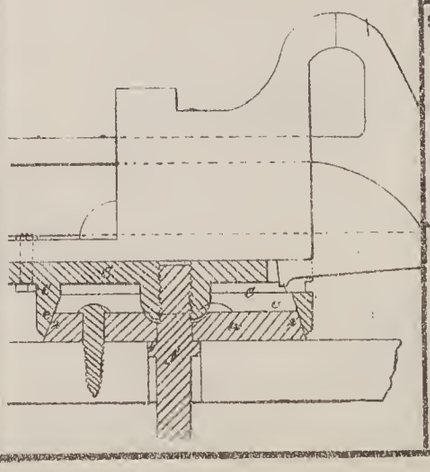
96,235, GEORGE TANGYE.
COPYING-PRESSES.



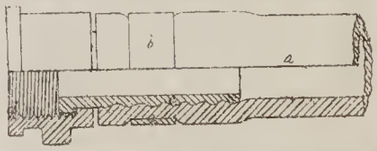
96,278, FREDERICK H. SMITH.
BRIDGE.



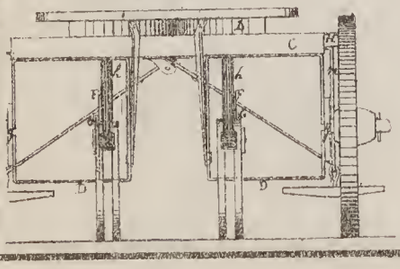
96,282, ANSON P. STEPHENS.
BASE FOR BENCH-VISES.



96,286, J. C. THOMPSON.
HOSE AND PIPE-COUPLINGS.



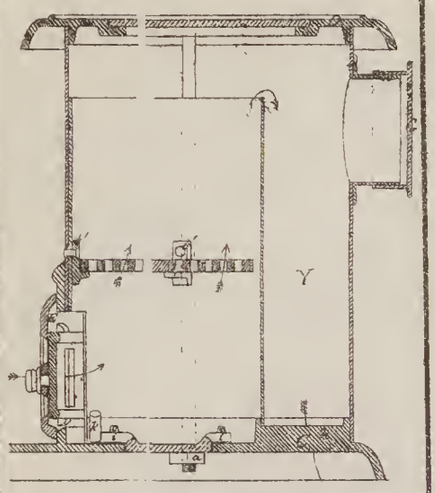
96,279, J. A. SMITH.
CULTIVATORS.



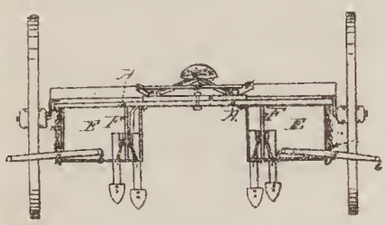
96,287, R. M. THOMPSON. WRENCH.

96,288, GEORGE T. THORP.
FISH-BAIT.

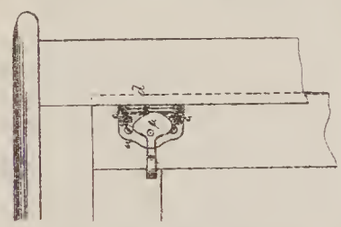
96,289, J. S. VAN BUREN.
SUMMER-FURNACE.



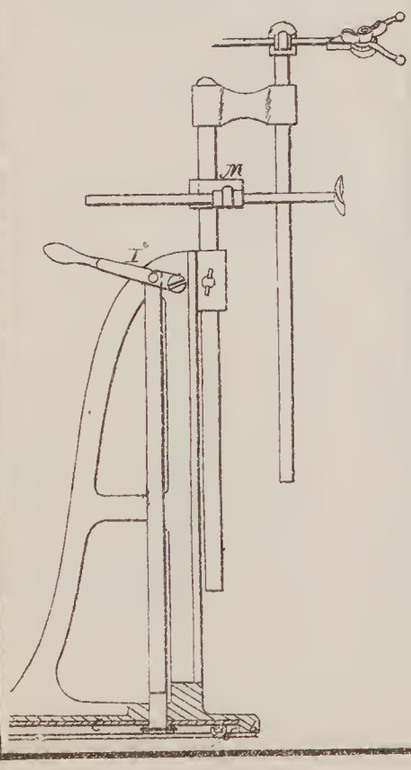
96,290, ELISHA WALKER.
JOSIAH J. PIATT.
CULTIVATORS



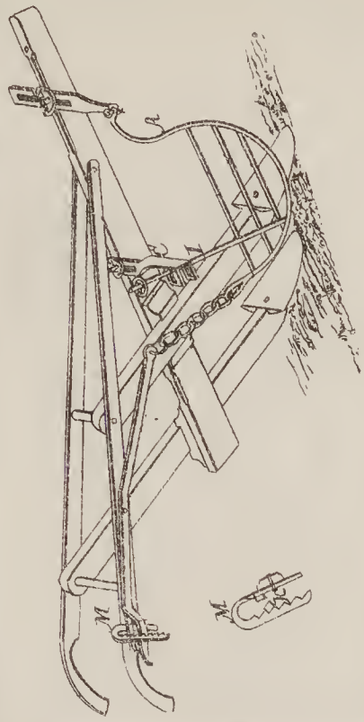
96,291, W. M. WALTON. **SASH-HOLDER.**



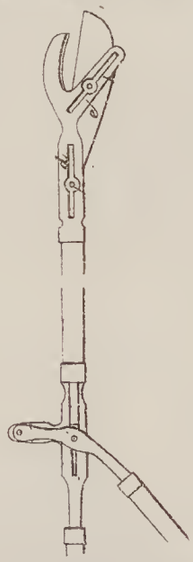
96,292, EDWARD L. WILSON.
PHOTOGRAPERS' REST.



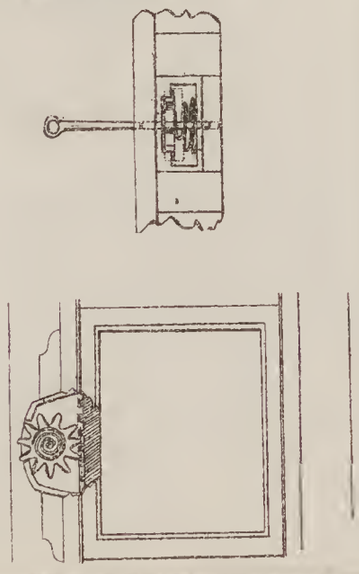
96,293, LEWIS C. WITT.
W. F. JONES.
FENDERS FOR CORN-PLOWS.



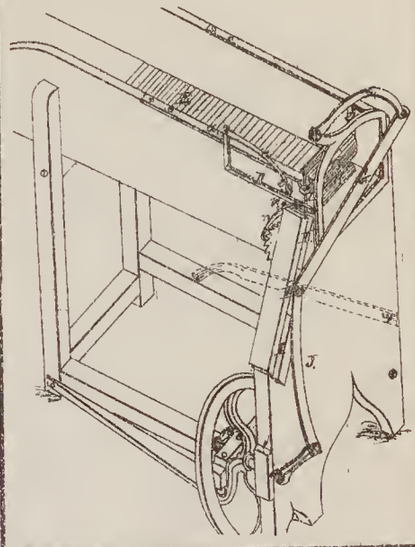
96,294, JAMES R. WOODWORTH.
PRUNING-IMPLEMENT.



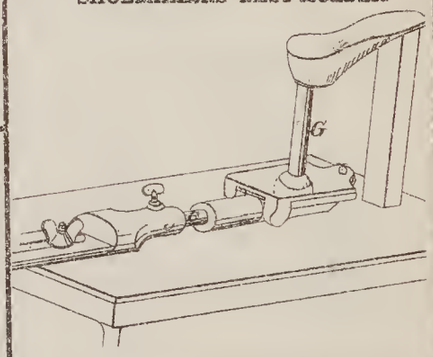
96,295, J. C. YOUNG.
SASH-HOLDER.



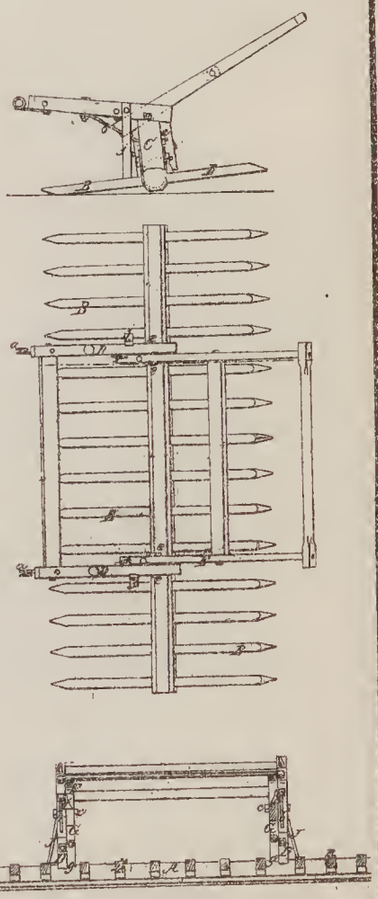
96,296, THOMAS N. YOUNG.
STRAW-CUTTERS



96,297, H. CALDER.
GEO. BURGESS.
SHOEMAKERS' LAST-HOLDER.



3,685, A. T. BARNES.
HORSE HAY-RAKES.



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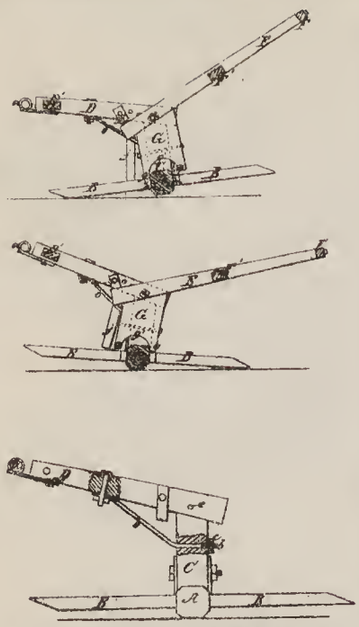
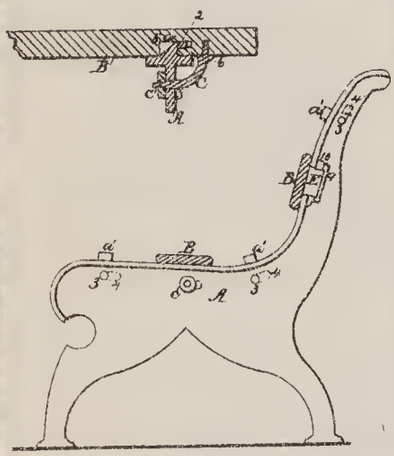
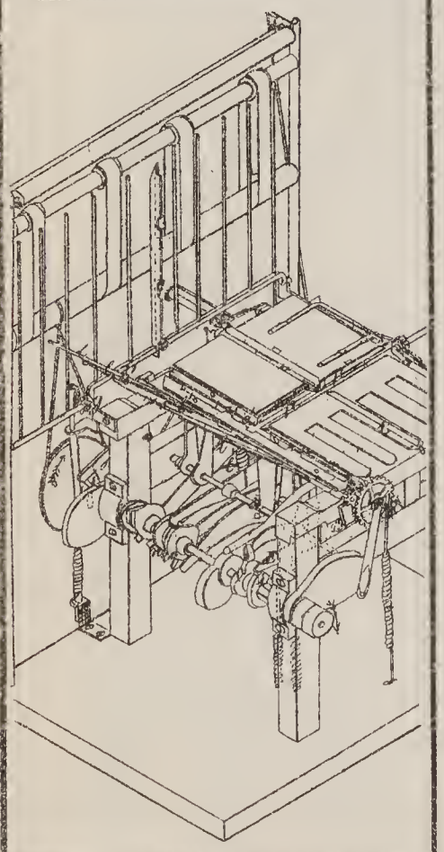


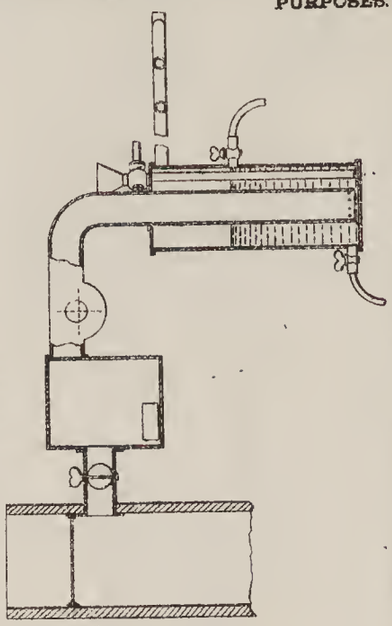
3,686, THOS. J. CLOSE. SETTEE-FRAME



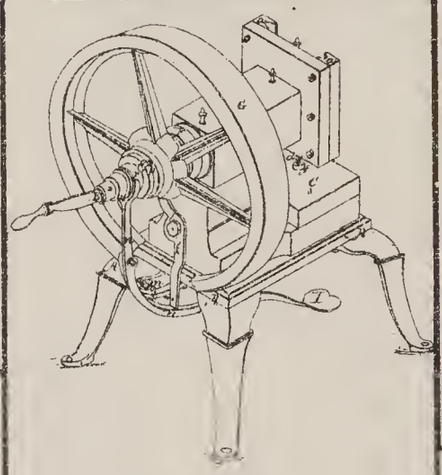
3,687 CHAS. A. DURGIN.
MACHINERY FOR FOLDING PAPER.

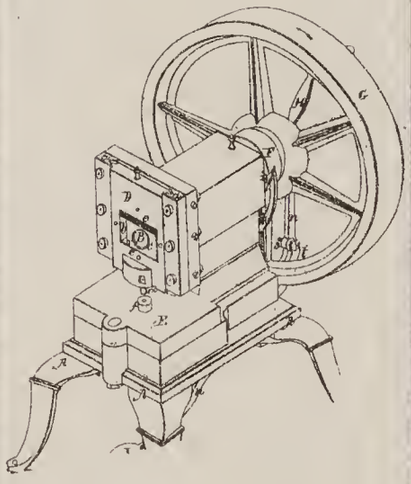


3,688, HENRY HANNEN.
THOMAS WOODS.
BENJAMIN F. PINE.
UTILIZING THE WASTE PRODUCTS OF COMBUSTION FOR THE MANUFACTURE OF WHITE LEAD, AND FOR OTHER PURPOSES.

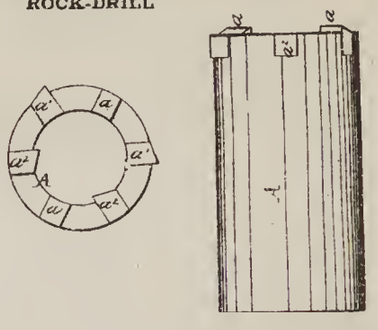


3,689, CHAS. PARKER.
MACHINE FOR PUNCHING METALS.

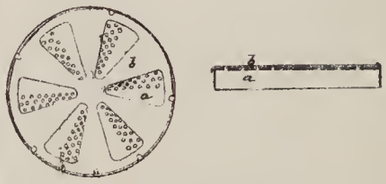




3,690, ASAHEL J. SEVERANCE.
ROCK-DRILL.



3,691, JOSEPH H. STEELE.
SPICE-BOX.



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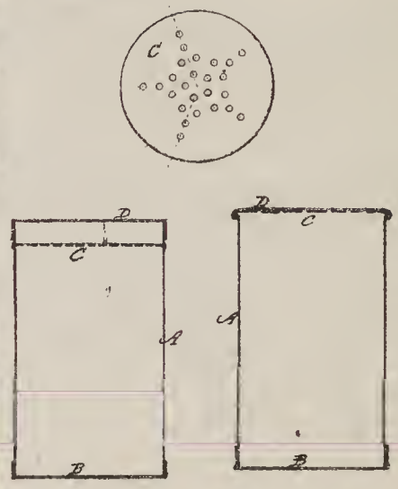
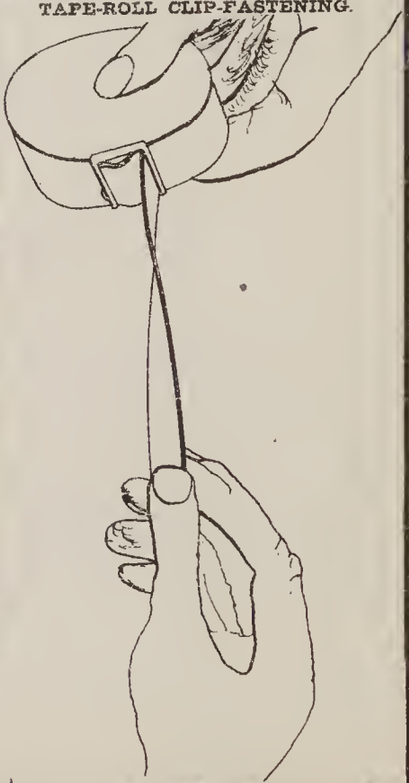
SPICE-BOX.



3,693, MARCUS BROWN WESTHEAD.
TAPE-ROLL CLIP-FASTENING.



ILLUSTRATIONS OF PATENTS

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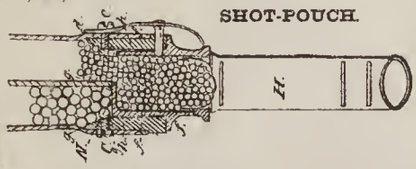
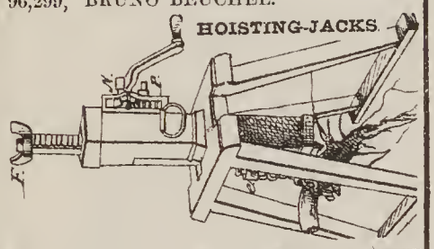
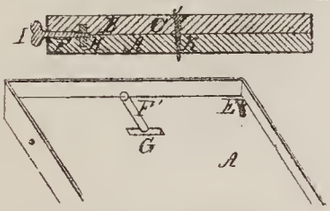
96,298, ALBERT F. ALLEN. **SHOT-POUCH.**



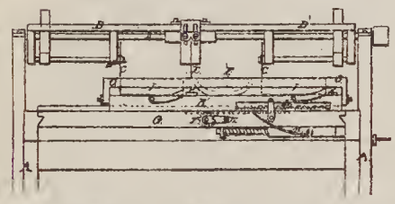
96,299, BRUNO BEUCHEL. **HOISTING-JACKS.**



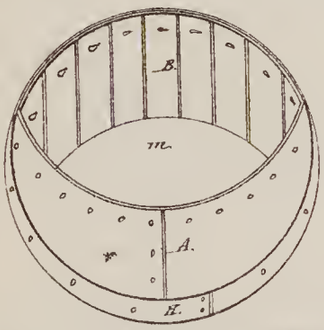
96,300, W. B. BILLINGS. **MODE OF MAKING THE BEDS OF BILLIARD-TABLES.**



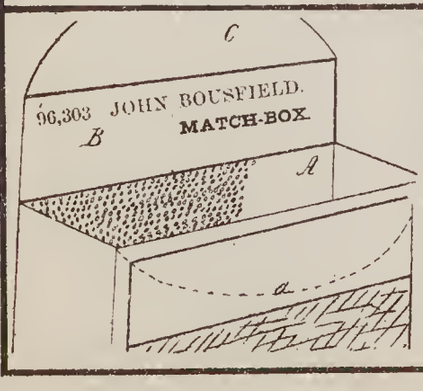
96,301, HENRY BLAKE. AMOS J. BLAKE. **MACHINE FOR SHAPING WOODEN TRAYS.**



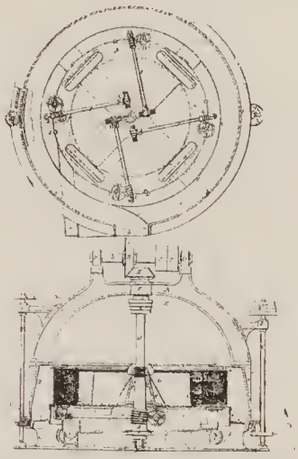
96,302, FRANK BLECKA. **CHEESE-BOX.**



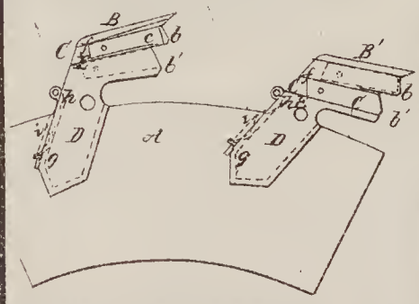
96,303 JOHN BOUSFIELD. **MATCH-BOX.**



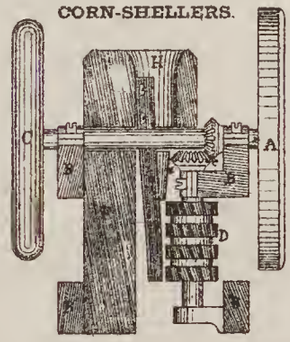
96,304, JOHN FREDERICK BRINJES. **CENTRIFUGAL MACHINE.**



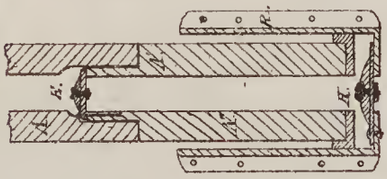
96,305. IRA S. BROWN. CHAS. N BROWN. **SAWS.**



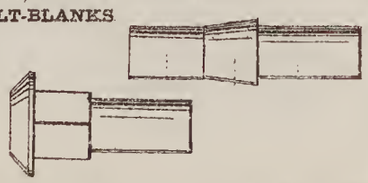
96,306, HARMON W. CORNELL. **CORN-SHELLERS.**



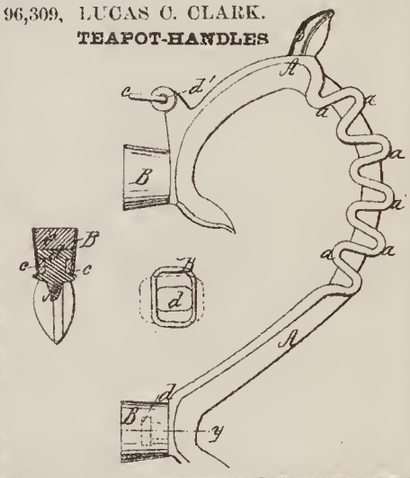
96,307, WILLIAM N. CHAMBERLAIN. **PUMPS.**



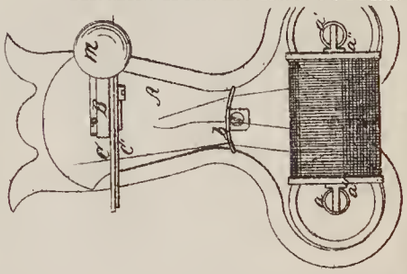
96,308, JAMES B. CLARK. **BOLT-BLANKS.**



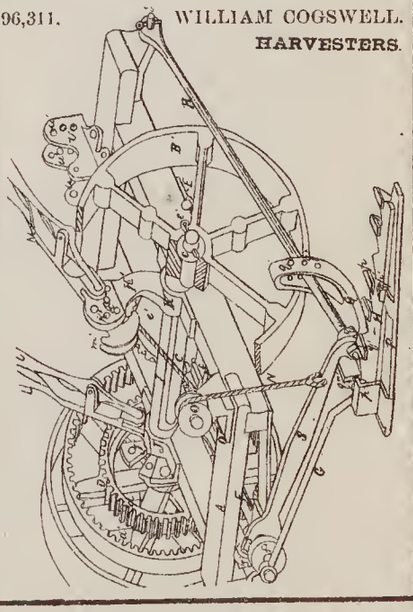
96,309, LUCAS C. CLARK. **TEAPOT-HANDLES.**



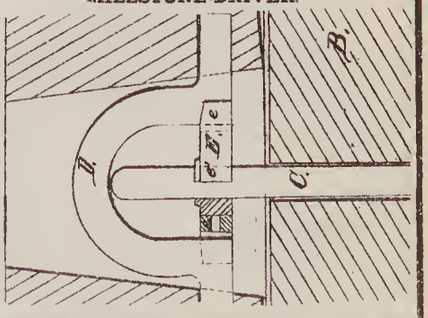
96,310, JOHN CLEARY. **THREAD-HOLDER AND CUTTER.**



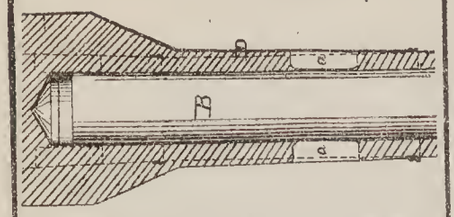
96,311. WILLIAM COGSWELL. **HARVESTERS.**



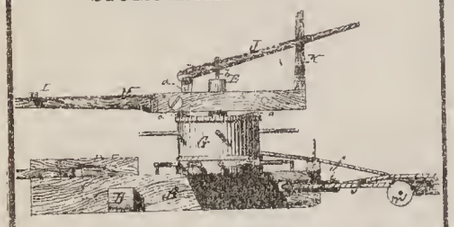
96,312, SOLOMON DARKESS **MILLSTONE-DRIVER.**



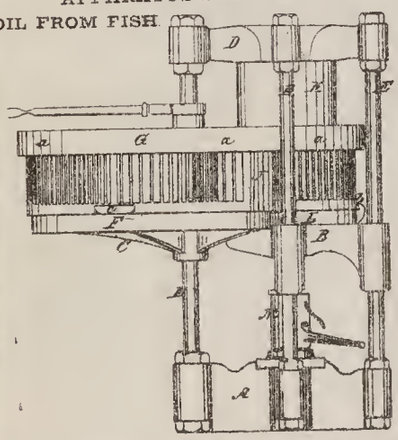
96,313, EDWIN DAYTON. **APPARATUS FOR COATING CEMENT PIPES.**



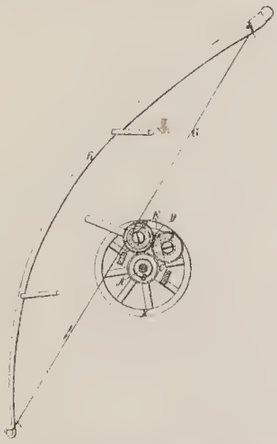
96,314, EDWARD EALES. **STUMP-EXTRACTORS.**



96,315 WM. H. H. GLOVER. **APPARATUS FOR EXTRACTING OIL FROM FISH.**

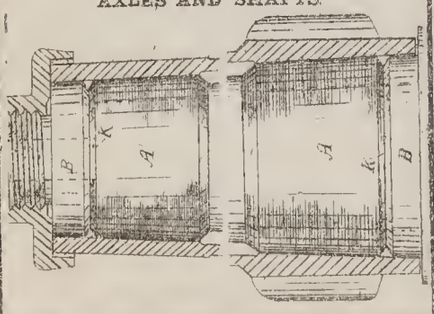


96,316, MARCUS A. HARDY. **MECHANICAL MOVEMENTS.**

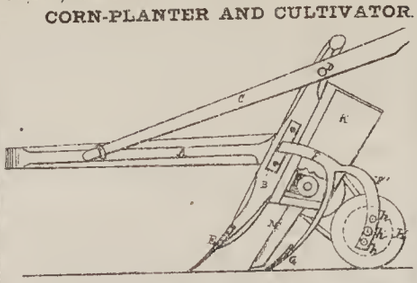


96,317. JOHN T. HARRIS. **CATTLE-FOOD.**

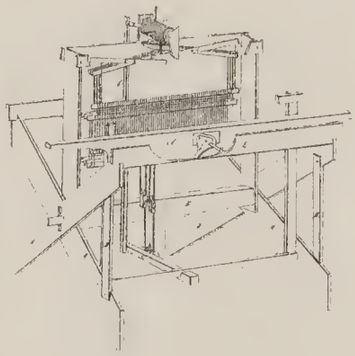
96,318, WM. H. HAWLEY. **AXLES AND SHAFTS.**



96,319, JACOB C. HAZEN. **COMBINED CORN-PLANTER AND CULTIVATOR.**

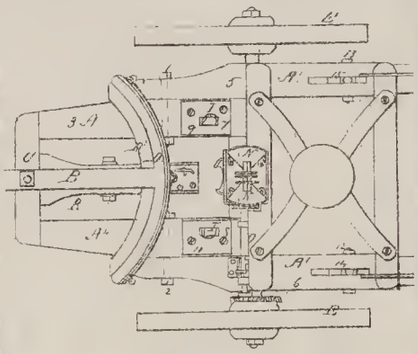


96,320. JOHN G. HENDERSON. **LOOMS.**

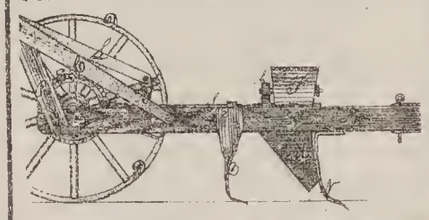


96,321, JAMES HOGBEN. **BLUING-COMPOUND FOR THE MANUFACTURE OF PAPER.**

96,322, D. E. HOLT. **COMBINED CULTIVATOR AND SEED-PLANTER.**

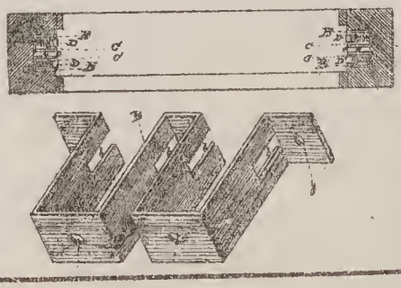


96,323, D. E. HOLT. **CORN AND COTTON-SEED PLANTERS.**

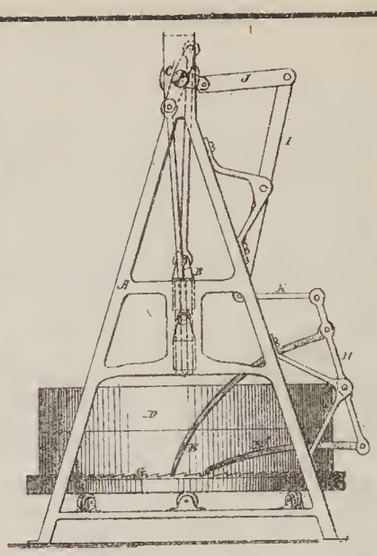


96,324, S. E. JOHNSON. **TROCHE.**

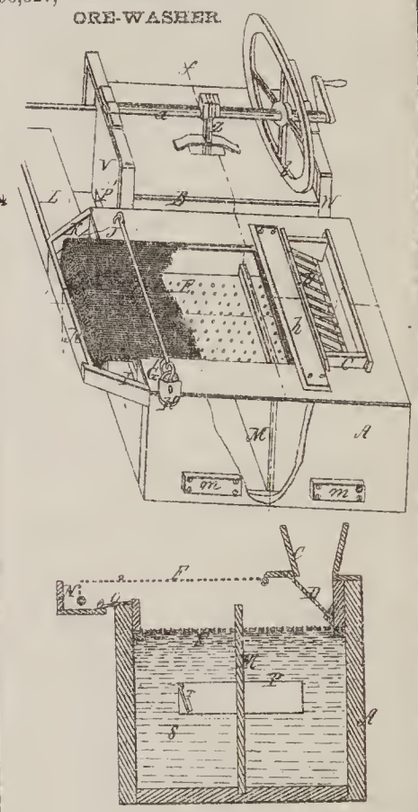
96,325, PETER KEFFER. **SASH-SUPPORTER.**



96,326, ANTON KIRN. **MEAT-CUTTING MACHINE.**

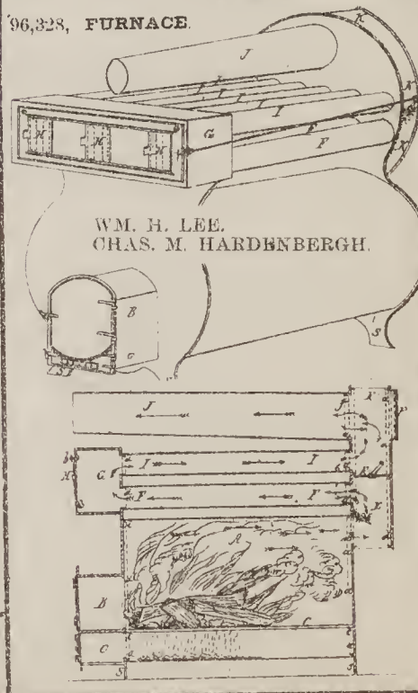


96,327, KELLEY LE BEAU. **ORE-WASHER.**

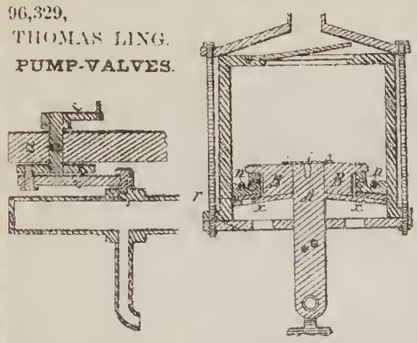


96,328, **FURNACE.**

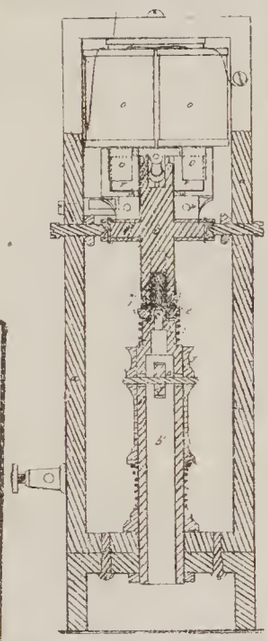
WM. H. LEE.
CHAS. M. HARDENBERGH.



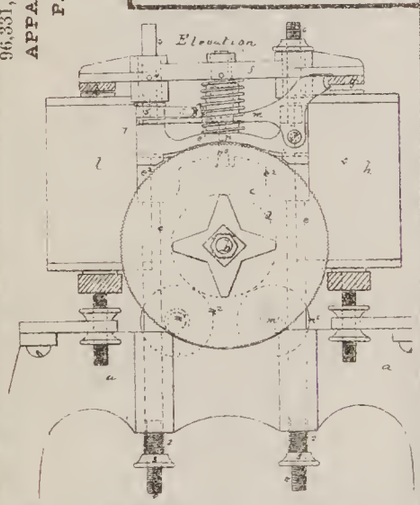
96,329, THOMAS LING. **PUMP-VALVES.**



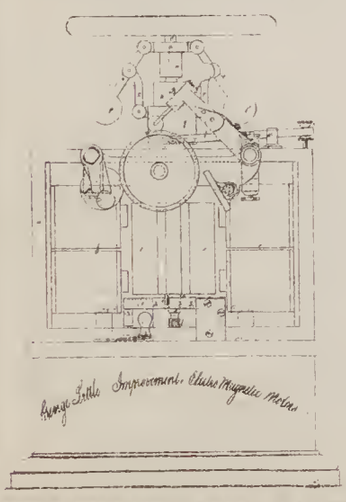
96,330, GEORGE LITTLE. **PERFORATING PAPER FOR TELEGRAPHING.**



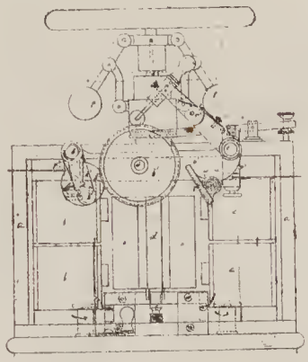
96,331, GEORGE LITTLE. **APPARATUS FOR PERFORATING PAPER FOR TELEGRAPHING.**



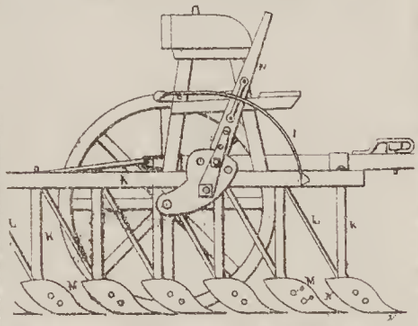
96,332, GEORGE LITTLE. **ELECTRO-MAGNETIC MOTORS.**



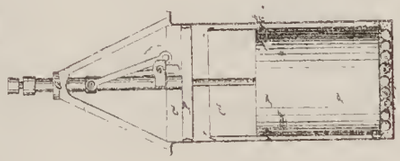
96,333, GEORGE LITTLE. **AUTOMATIC TELEGRAPH-APPARATUS.**



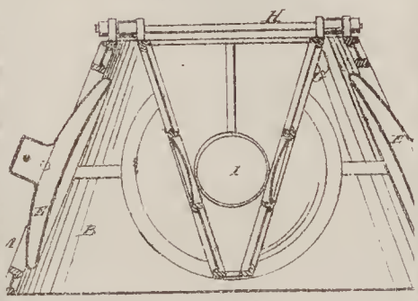
96,334, HENRY P. McCLEAVE. **GANG-PLOW CULTIVATOR**



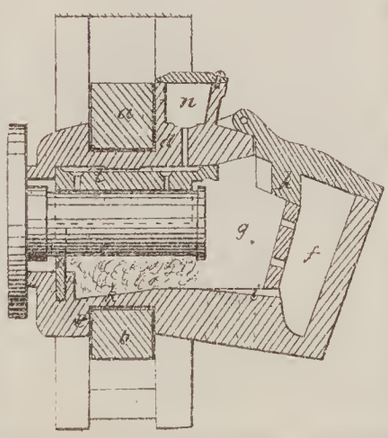
96,335, THOMAS McDONOUGH. **HOT-AIR ENGINES.**



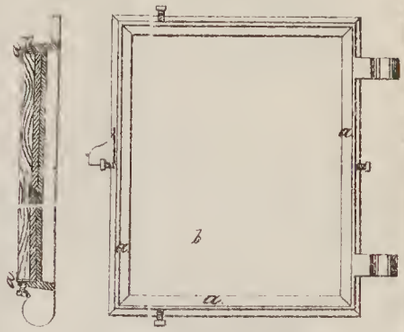
96,336, SAMUEL MEADOWS. **REFLECTORS.**



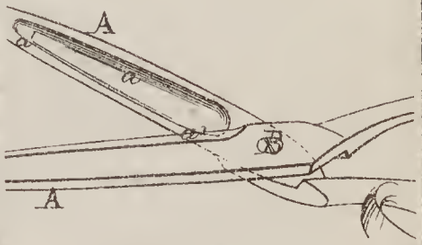
96,337, DAVID METZ. **AXLE-BOX.**



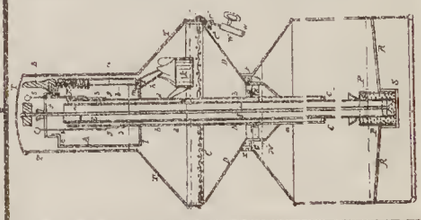
96,338, GEO. R. MOORE. **OVENS.**



96,339, BYRON W. NICHOLS. **SHEARS.**

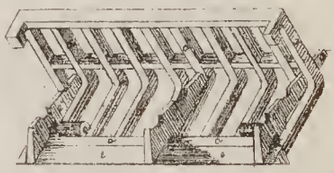


96,340, PERSON NOYES. **APPARATUS FOR MEASURING LIQUID**

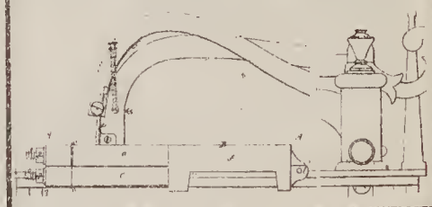


96,341 CANCELED.

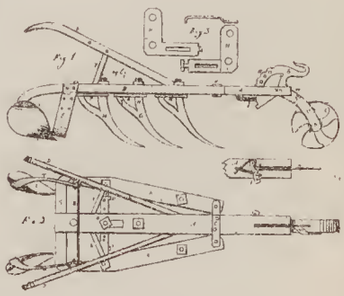
96,342, JAMES OLD. **GRATE.**



96,343, CHARLES PAGE. **CREASING ATTACHMENT FOR SEWING-MACHINES.**

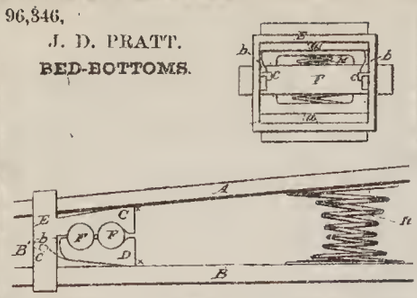


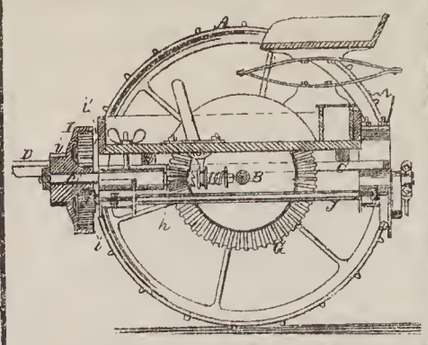
96,344, F. L. PERRY. **CULTIVATOR**

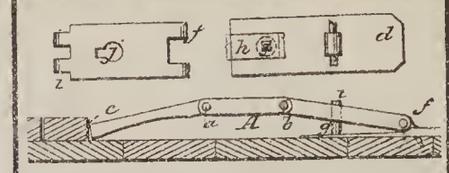


96,345, JOHN PICKLES. **SOLID OR DRY EXTRACT OF BARK FOR TANNING.**

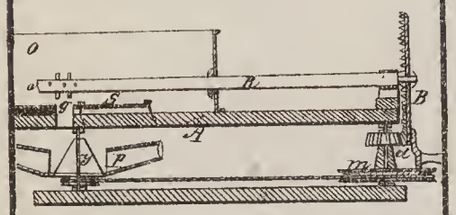
96,346, J. D. PRATT. BED-BOTTOMS.



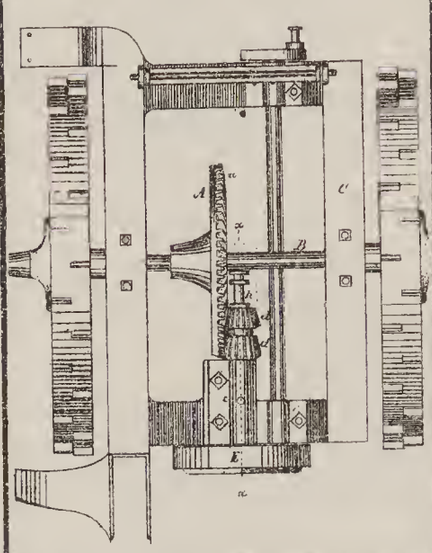




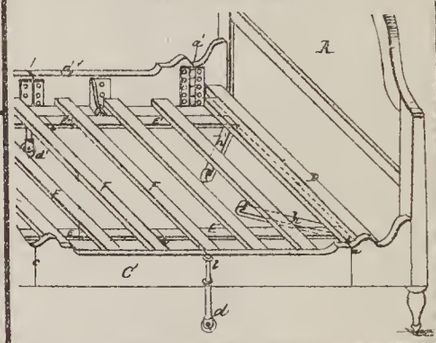
96,347, THOS. J. PRICE. SEED-SOWER.



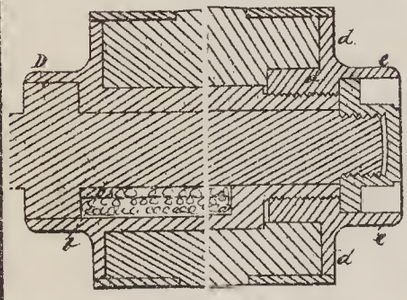
96,352, AMOS RANK. HARVESTER.



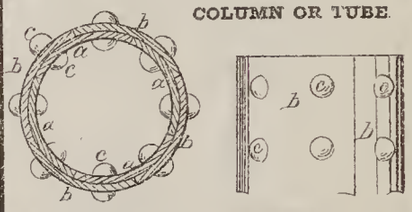
96,356, GERARD SICKELS. FOLDING BEDSTEAD.



96,348, SILAS S. PUTNAM. SELF-LUBRICATING AXLE-BOX.

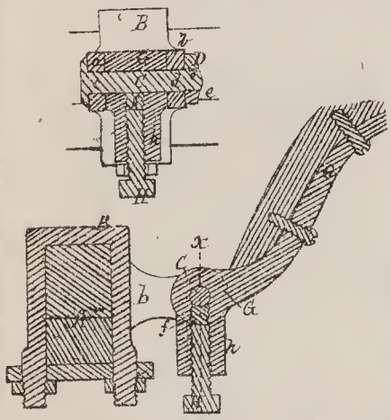


96,357, FREDERICK H. SMITH. COLUMN OR TUBE.

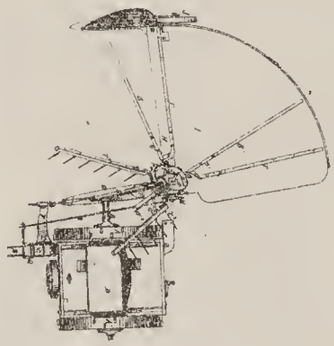


96,358, HAMILTON E. SMITH. PERFORATED WEARING-APPAREL.

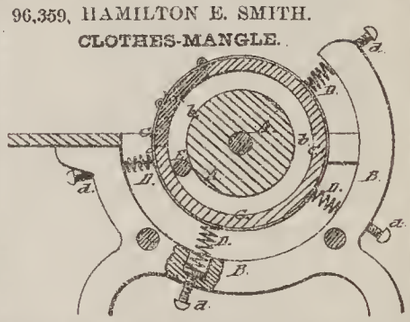
96,349, SILAS S. PUTNAM. THILL-COUPLING.



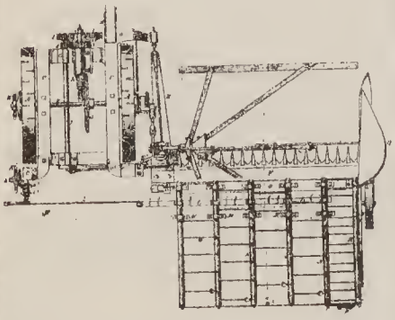
96,353, AMOS RANK. HARVESTER-RAKE.



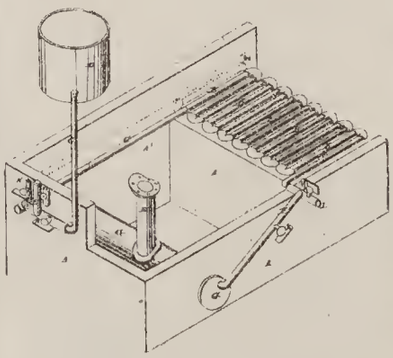
96,359, HAMILTON E. SMITH. CLOTHES-MANGLE.



96,350, AMOS RANK. HARVESTER.



96,354, JAMES BRADEN. CIRCULATING GRATES FOR STEAM-GENERATORS.



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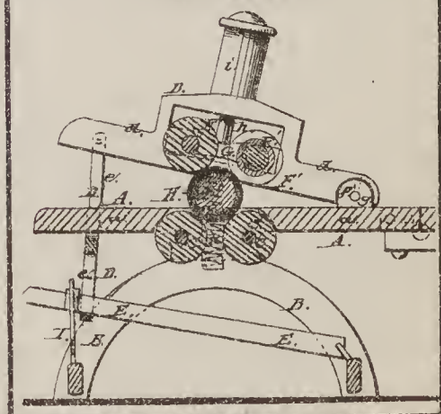
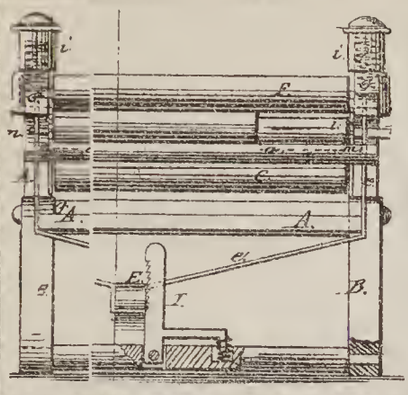


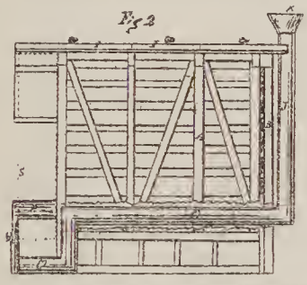
96,351, AMOS RANK. HARVESTER.

96,355, CHARLES M. SHAW. FLOOR-SET.

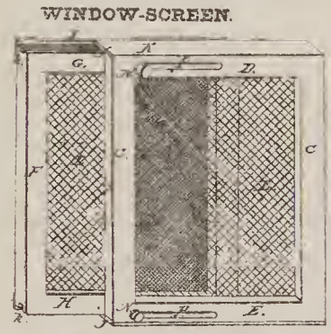
96,361, HAMILTON E. SMITH. CLOTHES-MANGLE.



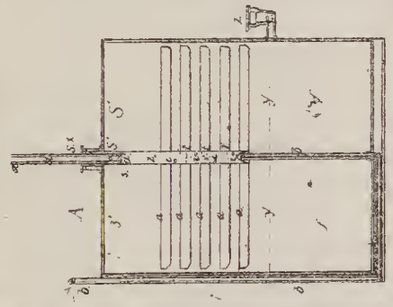
96,362, JOHN W. STREET.
RAILWAY CATTLE-CAR.



96,363, JAMES A. THORN.
WINDOW-SCREEN.

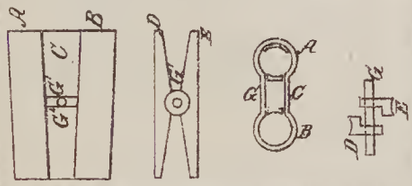


96,364, JOEL TIFFANY. **APPARATUS FOR CARBURETTING AND APPLYING AIR FOR LIGHTING AND HEATING.**

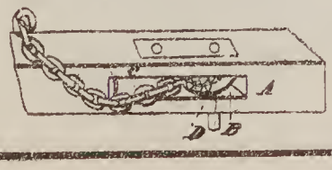


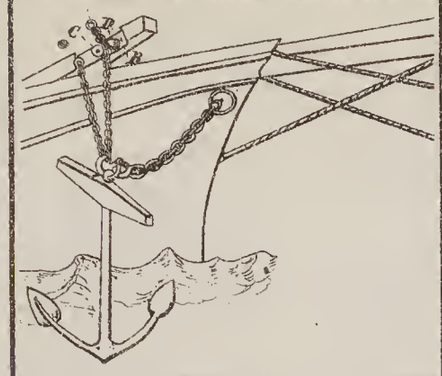
96,365, B. C. TILGHMAN. **MAKING TANNING AND DYEING-EXTRACTS.**

96,366. CLARK L. TYLER.
PENCIL-ATTACHMENT TO COMPASSES.

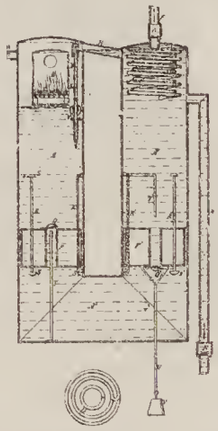


96,367, CALVIN WARDWELL.
RING-STOPPER NIPPER.

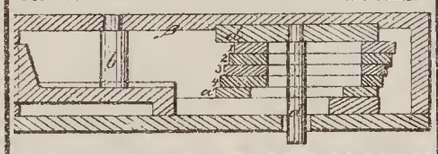




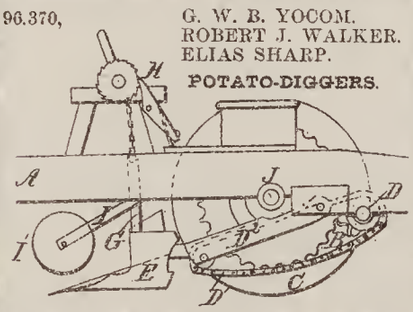
96,368, JAS. D. WARNER.
STEAM WATER-ELEVATOR.



96,369. HORATIO B. WEAVER. **LOCKS.**

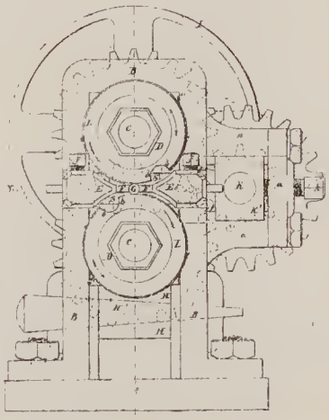


96,370, G. W. B. YOCOM.
ROBERT J. WALKER.
ELIAS SHARP.
POTATO-DIGGERS.

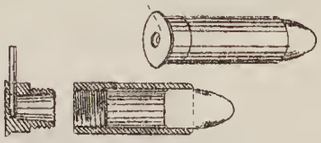


96,371. MORTIMER WILLIAMS.
COMPOUND FOR THE CURE OF CANCER.

96,372. JOSEPH B. WIGGENHORN.
MACHINE FOR THREADING BOLTS.

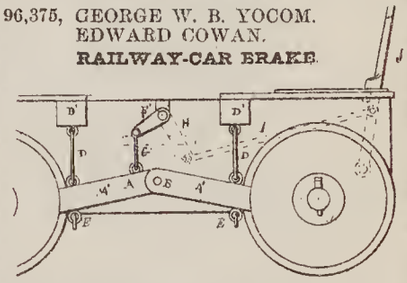


96,373, FRIEDRICH WOHLGEMUTH
CARTRIDGES.

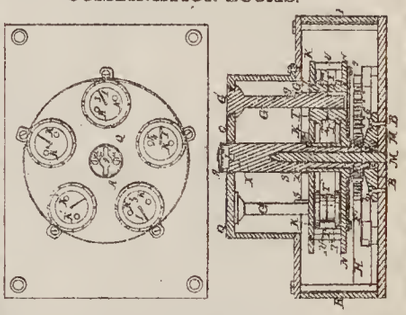


96,374, O. WUTH. **MANUFACTURE OF CARBONATE OF SODA.**

96,375, GEORGE W. B. YOCOM.
EDWARD COWAN.
RAILWAY-CAR BRAKE.

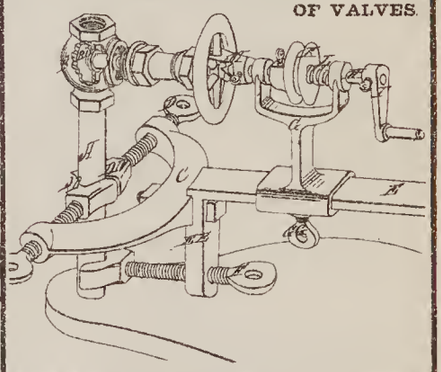


96,376, MOSES ADAMS.
COMBINATION-LOCKS.

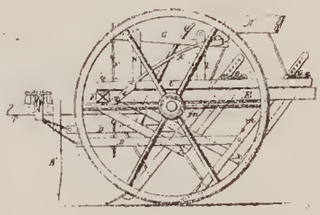


96,377 J. C. ANDERSON.
WEATHER-BOARDING.

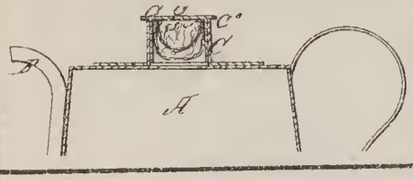
96,378, WILLIAM H. ANDERSON.
MACHINE FOR GRINDING SEATS OF VALVES.



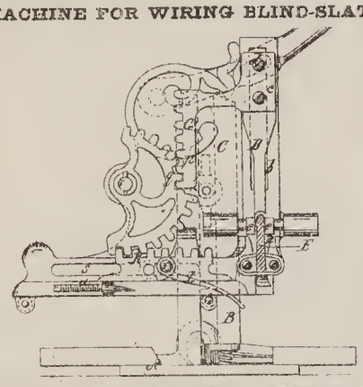
96,379, WILLIAM T. BAKER.
CULTIVATORS.



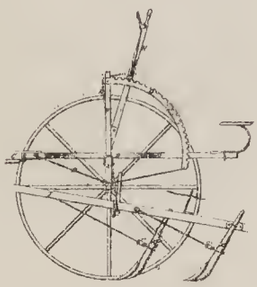
96,380. M. H. BARNES. **SAFETY-CANS.**



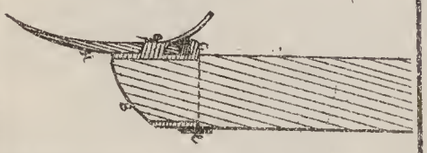
96,381. PETER BARRY.
MACHINE FOR WIRING BLIND-SLATS.



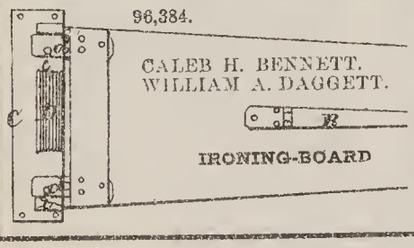
96,382, E. CHARLES BEAN.
FRANCIS N. WELDEN.
CULTIVATORS.



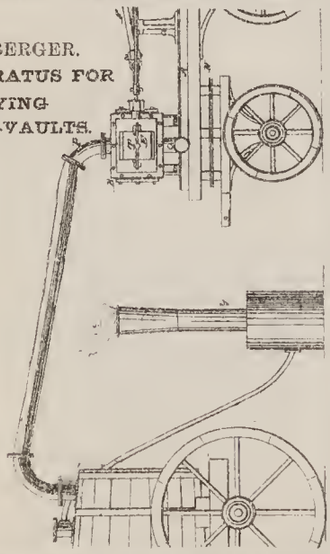
96,383. W. G. BECKWITH.
FASTENING PLOWSHARES TO PLOW-STOCKS.



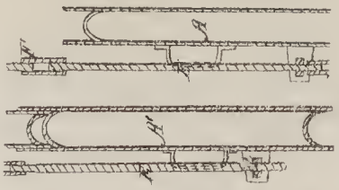
96,384.
CALEB H. BENNETT.
WILLIAM A. DAGGETT.
IRONING-BOARD



96,385.
J. G. BERGER.
APPARATUS FOR EMPTYING PRIVY-VAULTS.

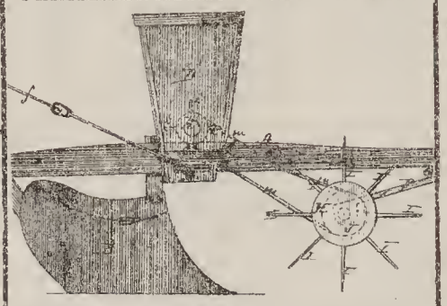


96,386, JOSHUA F. BISHOP.
PORTABLE FIRE-WALL.

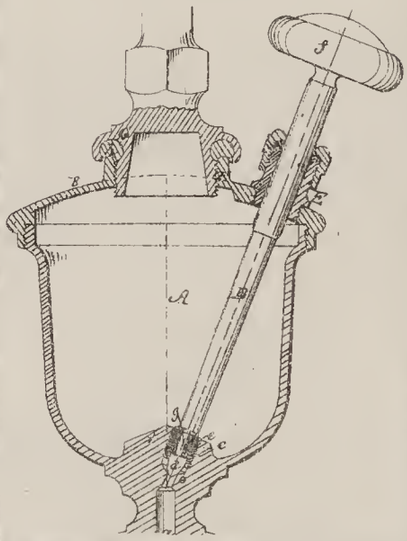


96,387, LOUIS BLACK. **SPECTACLES.**

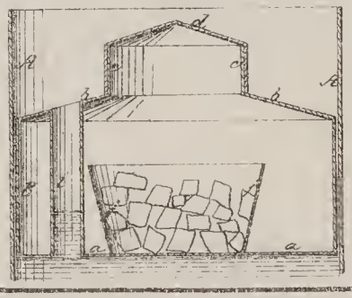
96,388, JOHN I. BOSWELL,
FERTILIZER-ATTACHMENT FOR PLOW.



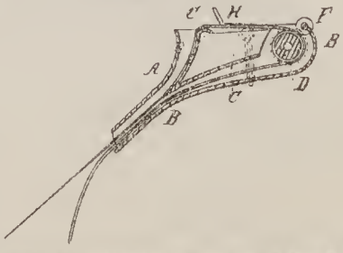
96,389, JOHN BROUGHTON.
LUBRICATORS.



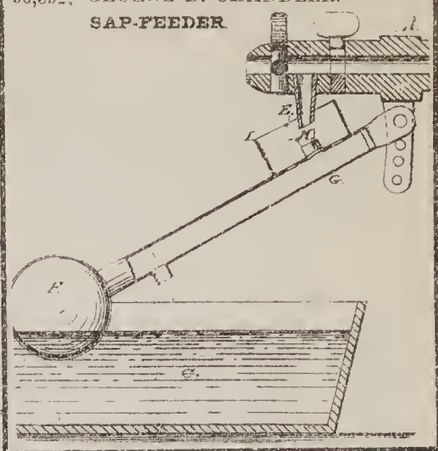
96,390, A. P. BUSSEY. **MILK-COOLERS.**



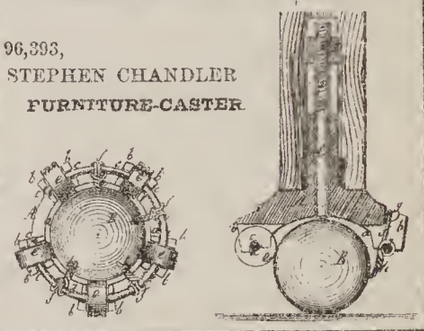
96,391, JOHN S. BUTLER.
COPY HOLDERS.



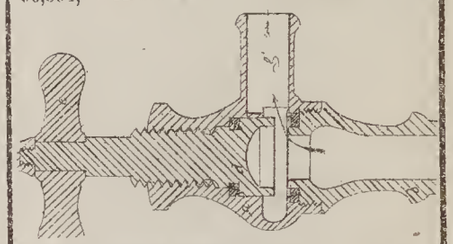
96,392, GEORGE D. CHANDLER.
SAP-FEEDER.



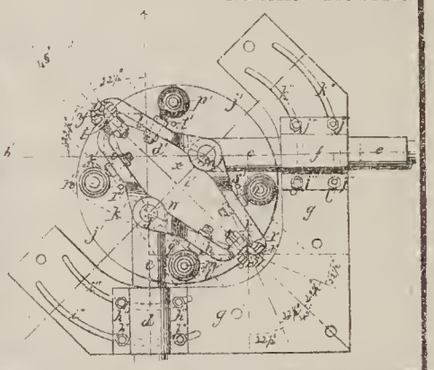
96,393,
STEPHEN CHANDLER
FURNITURE-CASTER.



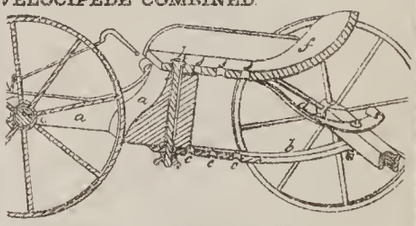
96,394, WILLIAM P. CLARK. **FAUCETS.**



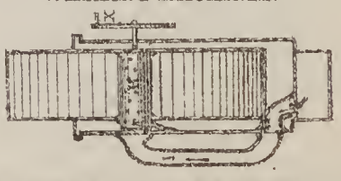
96,395, MELVILLE CLEMENS.
APPARATUS FOR TRANSMITTING ROTARY MOTION.



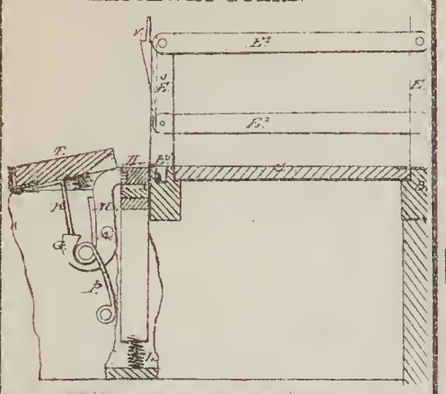
96,396, JOHN C. CLIME.
CHILD'S CARRIAGE AND VELOCIPEDE COMBINED.



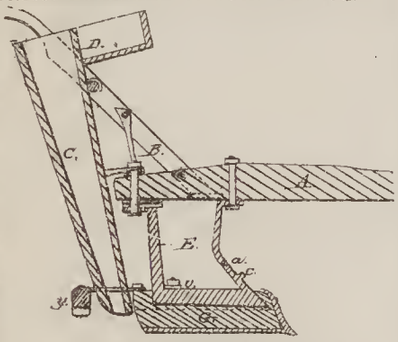
96,397, JOHN D. CONNER.
WASHING-MACHINES.



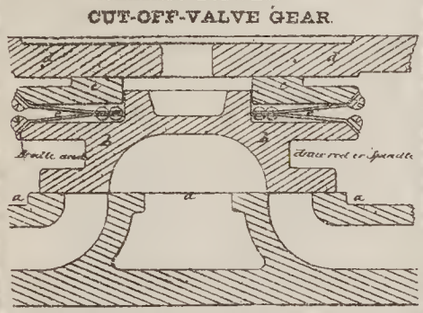
96,398, HENRY H. COVERT
HATCHWAY-GUARD.



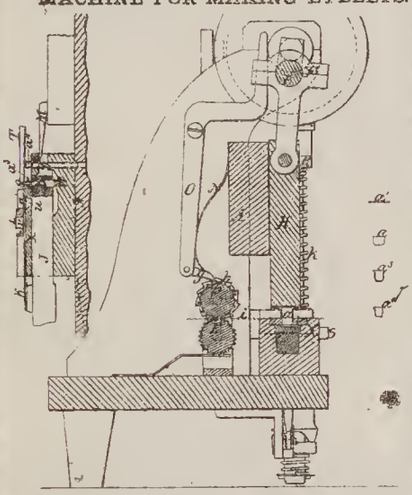
96,399. MICHAEL C. COX. PLOWS.



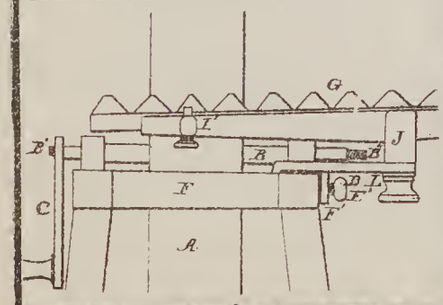
96,400, WILLIAM DAWES.
CUT-OFF-VALVE GEAR.



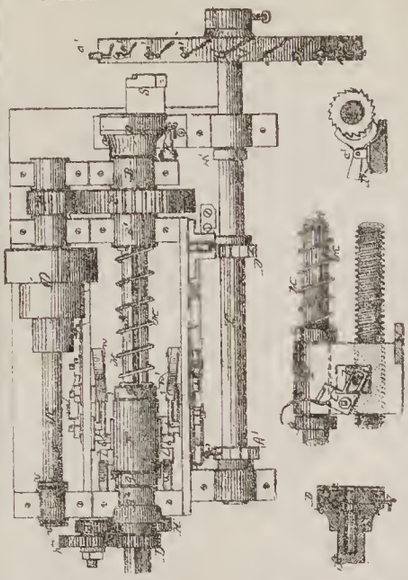
96,401, ADOLPH DELKESCAMP.
MACHINE FOR MAKING EYELETS.



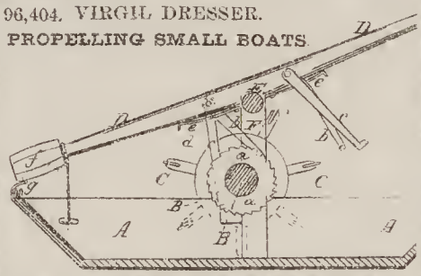
96,402, WM. B. DEUEL.
GRINDERS FOR HARVESTER-CUTTERS.



96,403, CHAS. E. DE VALIN.
MACHINE FOR THREADING BOLTS.

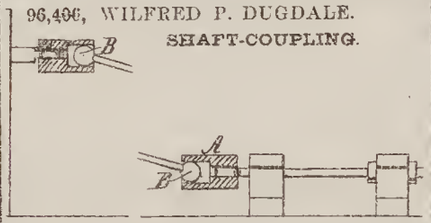


96,404. VIRGIL DRESSER.
PROPELLING SMALL BOATS.

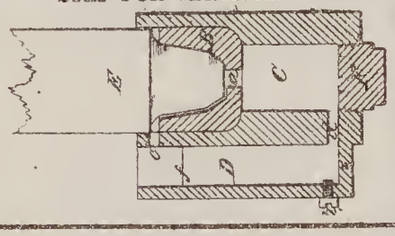


96,405, WILLIAM DRIPPS.
PROCESS OF RESTORING AND PRESERVING DECAYING RAILROAD-TIES.

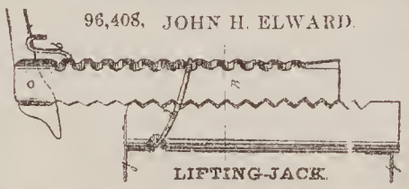
96,406, WILFRED P. DUGDALE.
SHAFT-COUPLING.



96,407, BEN F. DUNKLEE.
STEP FOR VERTICAL SPINDLE.



96,408, JOHN H. ELWARD.

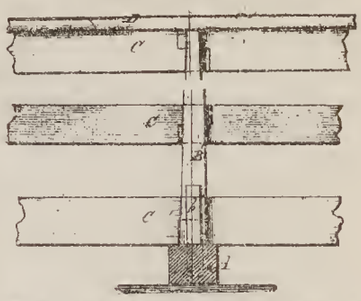


LIFTING-JACK.

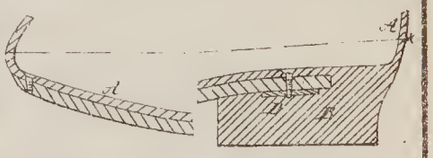
96,409, ALONZO FARRAR. PROCESS OF PRODUCING CARBON PIGMENTS.

96,410, SAMUEL B. FAY. TAGS.

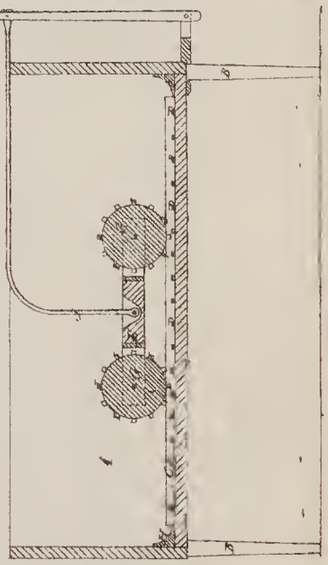
96,411, THOS. FLINN.
SELF-SUPPORTING FENCE.



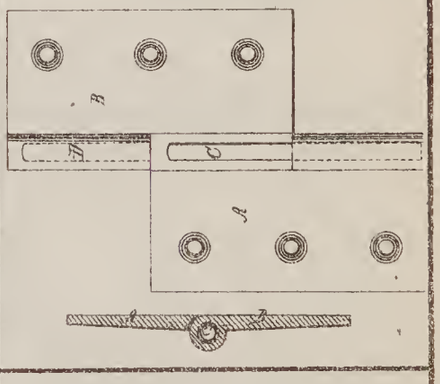
96,412, FRANCIS FLYNN.
SOLES OF RUBBER BOOTS AND SHOES.



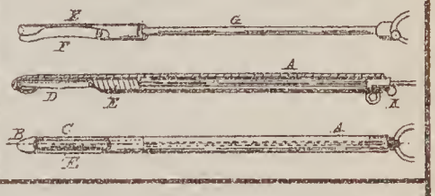
96,413, L. P. FOLLETT.
WASHING-MACHINE.



96,414, CHARLES H. FOSTER.
BUT-HINGE.

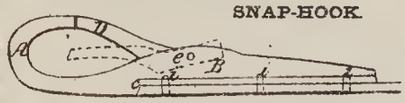


96,415. PETER J. FRANK.
INSTRUMENTS FOR CONVEYING MEDICINE TO DISEASED PARTS.

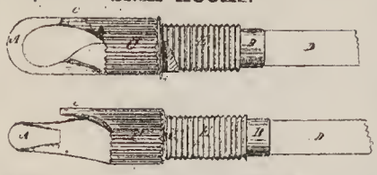


96,416, JOSEPH FRANKLIN. AXES.

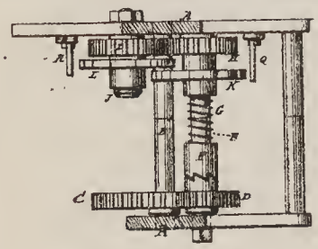
96,417, RALPH L. FRASER.
SNAP-HOOK.



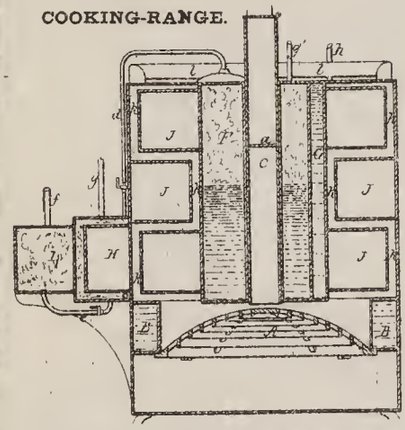
96,418, RALPH L. FRASER.
SNAP-HOOKS.



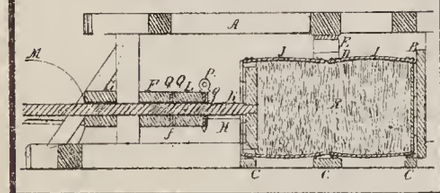
96,419, D'ALEMBERT T. GALE.
MECHANICAL-MOVEMENT.



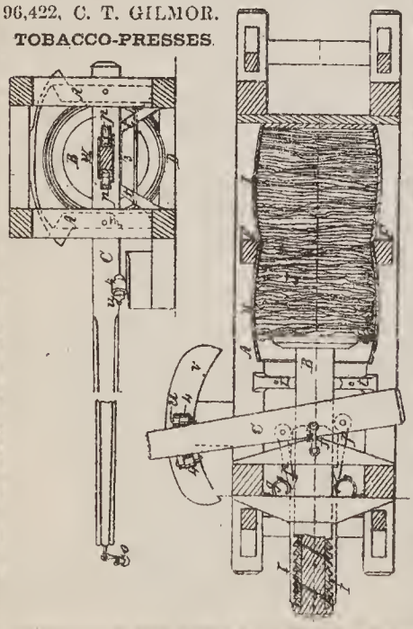
96,420, JEROME B. GARDNER.
COOKING-RANGE.



96,421, C. T. GILMOR.
TOBACCO-PRIZES.

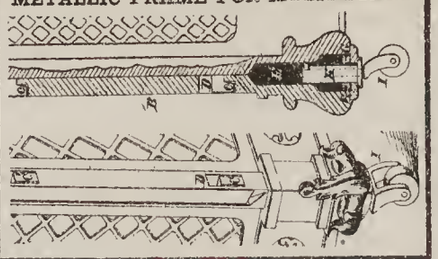


96,422, C. T. GILMOR.
TOBACCO-PRESSES.

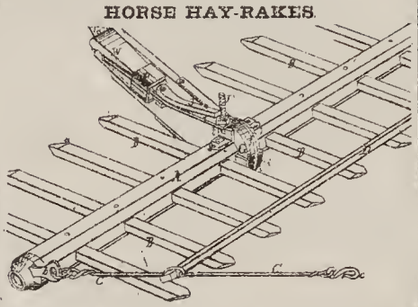


96,423, H. E. GOTLEB.
RENDERING ANIMAL FATS

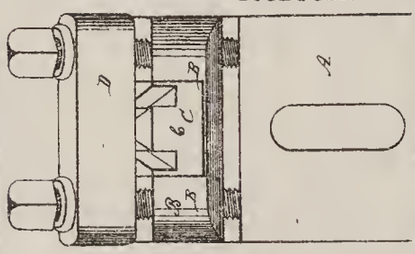
96,424, WILLIAM M. GREENWOOD.
BENOIT ROUX.
METALLIC FRAME FOR MUSIC-STAND



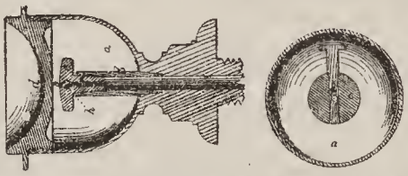
96,425 PHILIP M. GUNDLACH.
HORSE HAY-RAKES.



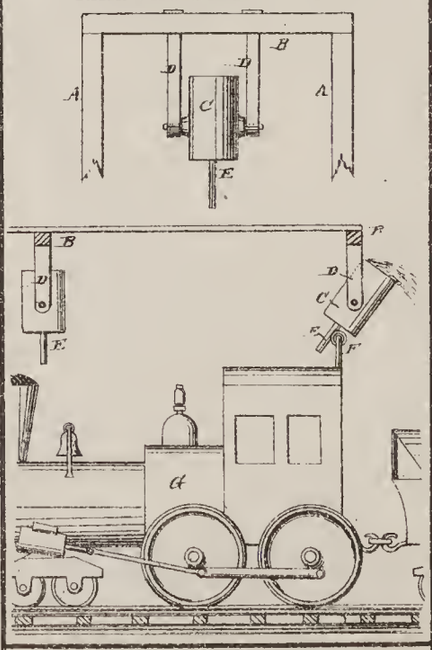
96,426, FAYETTE HARDENBERGH.
TOOL-POST.



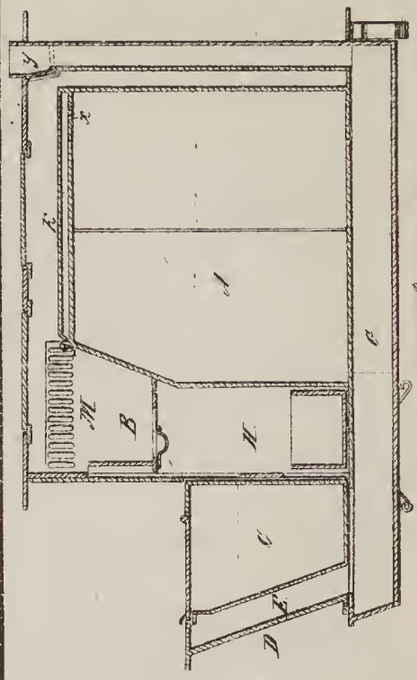
96,427, DENNIS HARRIGAN.
OIL-CUPS FOR MOVABLE BEARINGS.



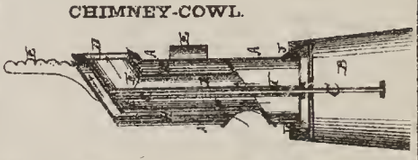
96,428. DAVID HARRISON.
RAILWAY SUPPLY-APPARATUS.



96,429, CHAS. W. HERMANCE.
COOKING-STOVE.

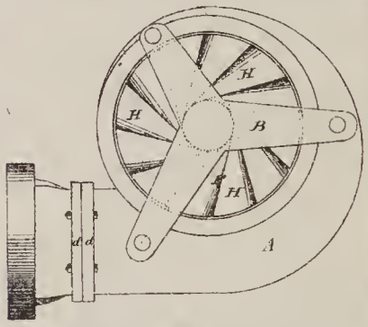


96,430. EDD. HEWETT.
CHIMNEY-COWL.

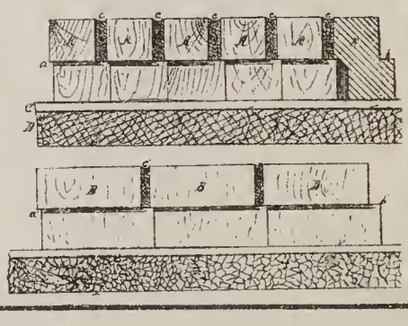


96,431 SUSPENDED.

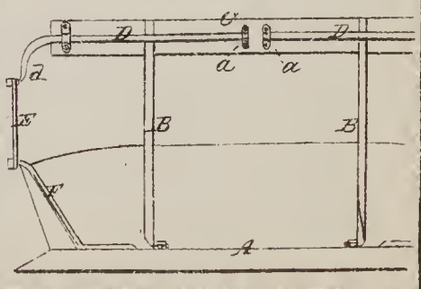
96,432, D. O. HOLMAN.
TURBINE WATER-WHEELS.



96,433, LAWRENCE HOLMS.
WOODEN PAVEMENT.

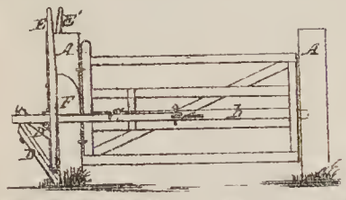


96,434. GILBERT L. HUDSON.
CARRIAGE-SEATS.



96,435, GEO. W. HUNTER. FENCE.

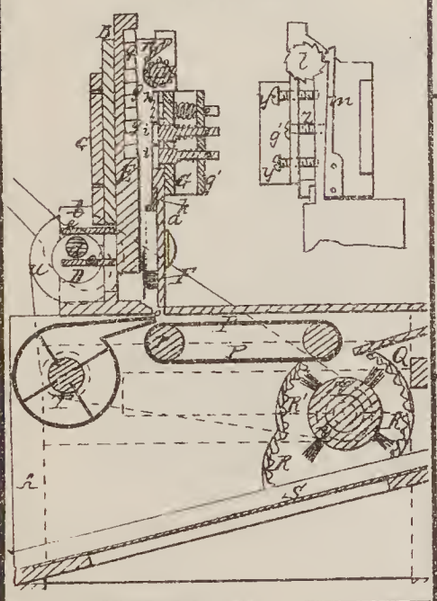
96,436, JOHN H. HUNTER. GATES.



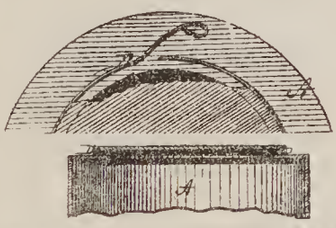
96,437, THEODORE JARVIS. SALVE.

06,438, ELIJAH K. JENNER.
METHOD OF UNITING ARTIFICIAL TEETH ON RUBBER BASES TO METALLIC PLATES.

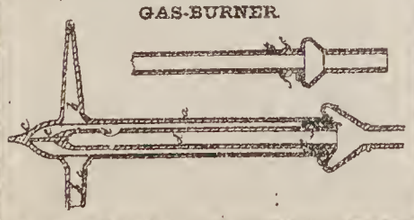
96,439, CHARLES JORDAN.
HULLING-MACHINES.



96,440, ROSWELL JUDSON.
JOHN P. SCHENCK, TIN CANS.

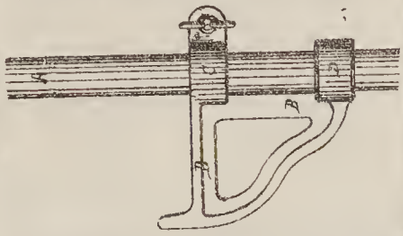


96,441, WESLEY L. JUKES.
GAS-BURNER.

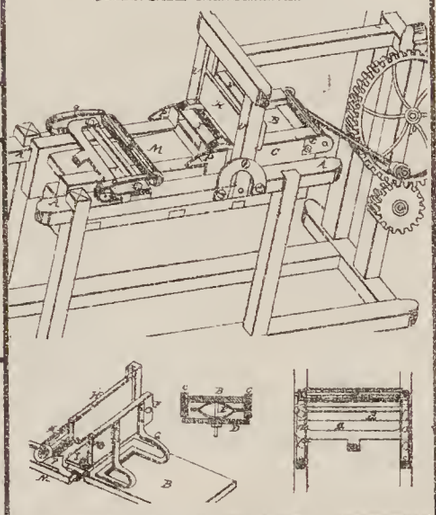


96,442, WM. C. KELLY. CASE AND SAMPLE-CARD FOR SPOOLED SILK.

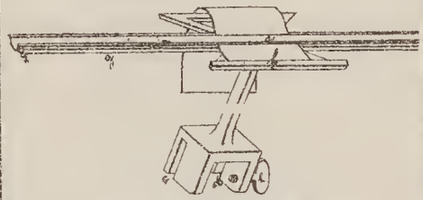
96,443, LEWIS A. KIMBERLY. STILTS.



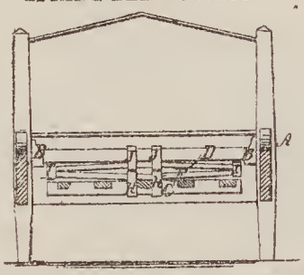
96,444, SAML. M. KING.
SHINGLE-MACHINE.



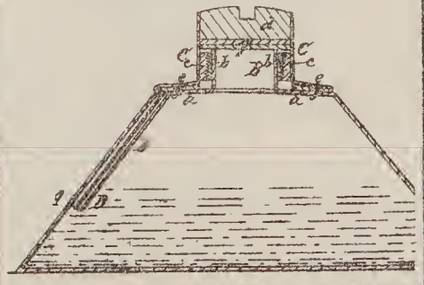
96,445, HORACE W. KNIGHT.
COPY-HOLDERS FOR PRINTERS.



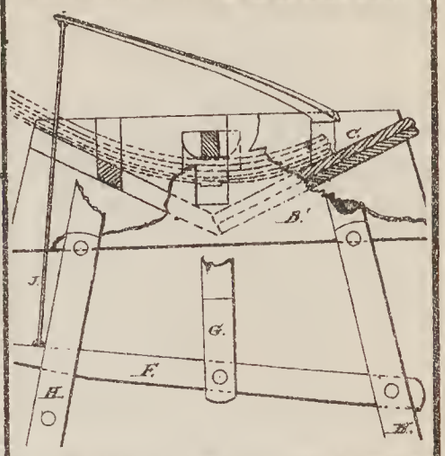
96,446, F. F. LAHM.
SPRING-BED BOTTOM.



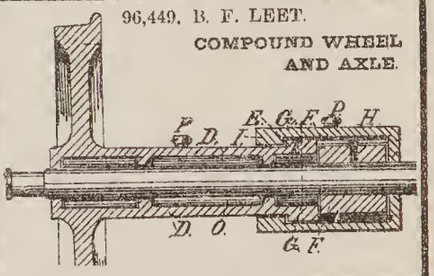
96,447. ALEX. N. LAPIERRE.
SCREW-CAPS FOR CANS.



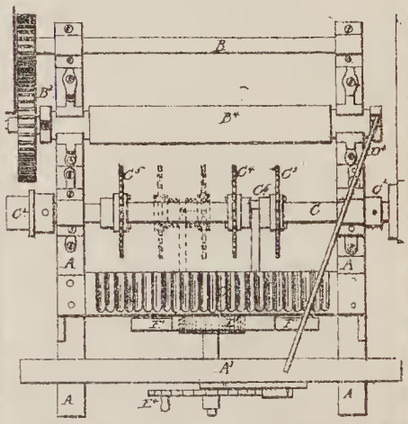
96,448, WILLIAM LAWYER.
MACHINE FOR MAKING HOOPS.



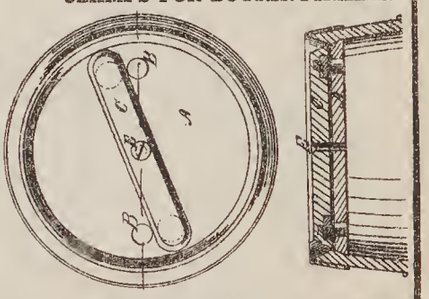
96,449. B. F. LEET.
COMPOUND WHEEL AND AXLE.



96,450, JOSEPH F. LETELLIER.
ADOLPH LEITELT.
SAWING-MACHINE.

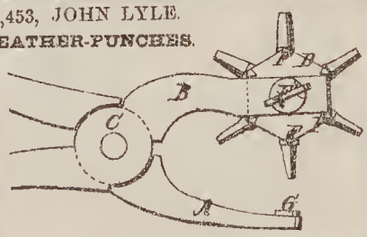


96,451, D. M. LOCKRIDGE.
CLAMPS FOR BUTTER-FIRKINS.

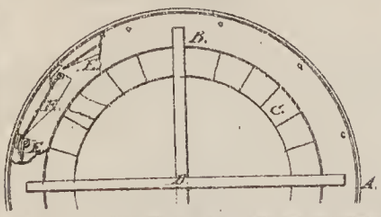


96,452, HENRY S. LOPER.
SHOE FOR CRIPPLES.

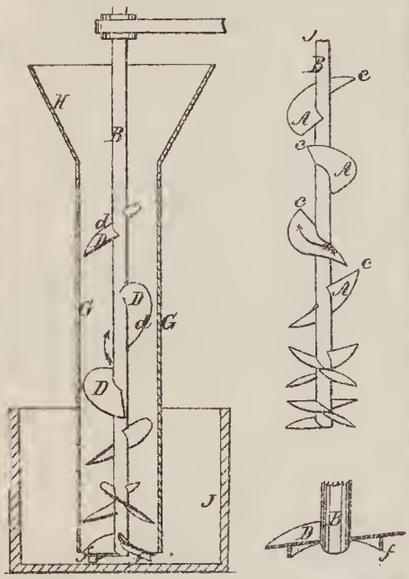
96,453, JOHN LYLE.
LEATHER-PUNCHES.



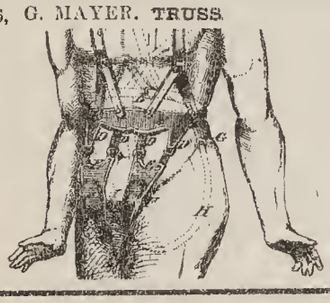
96,454, M. H. MATSON.
WATER-WHEELS.



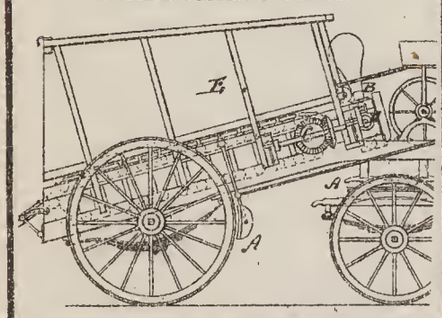
96,455, J. MATTISON. **PACKING-AUGERS AND SPIRAL CONVEYERS.**



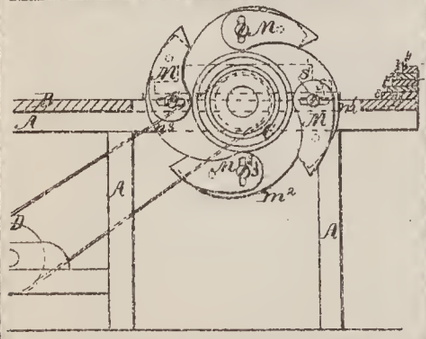
96,456, G. MAYER. **TRUSS.**



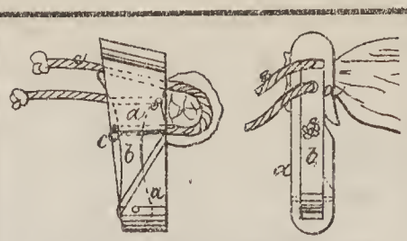
96,457, JNO. C. McCARTHY.
HORSE-POWER ENGINES FOR EXTINGUISHING FIRES.



96,458, J. C. McCORMICK.
MACHINE FOR MAKING CHAIR-SEATS.

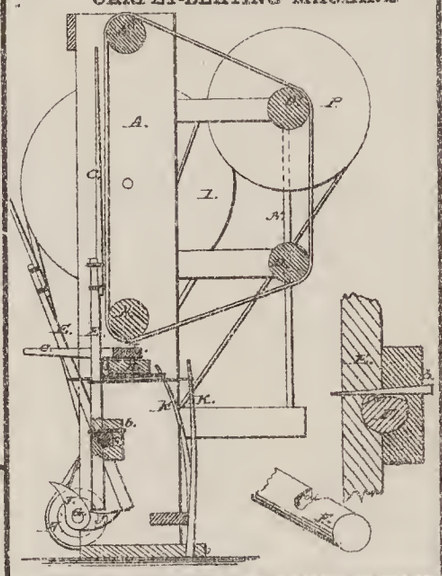


96,459, JOHN O. MELOY.
BAG-TIE.

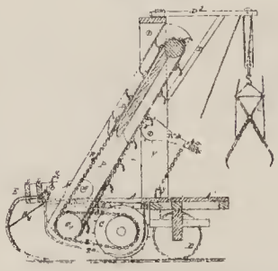


96,460, SAMUEL P. MERVINE,
RECTUM-SUPPORTER.

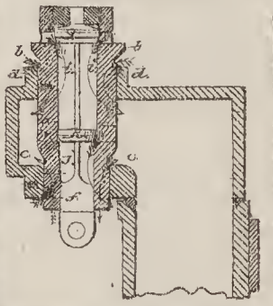
96,461, LORAN MINER.
CARPET-BEATING MACHINE.



96,462, BENJAMIN J. MOORE.
HAT-LOADERS.

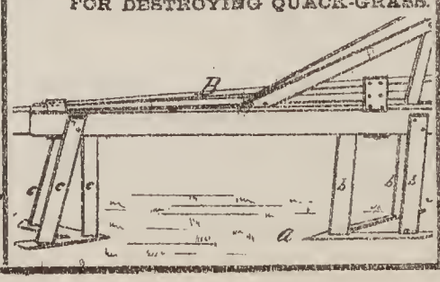


96,463, GEO. F. MORSE.
STEAM-ENGINE PUPPET-VALVES.

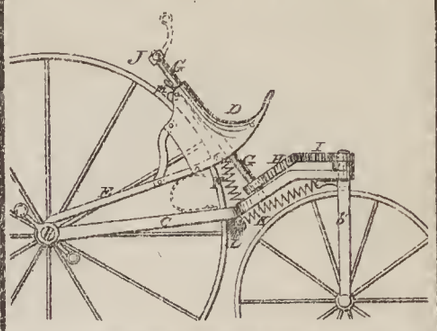


96,465. GEORGE M. MOWBRAY. COMPOUND FOR PRIMING ELECTRIC FUSES.

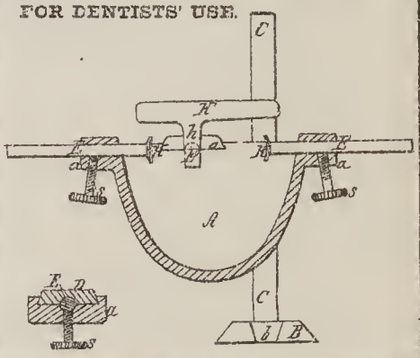
96,464, C. W. MOSELEY. **IMPLEMENT FOR DESTROYING QUACK-GRASS.**



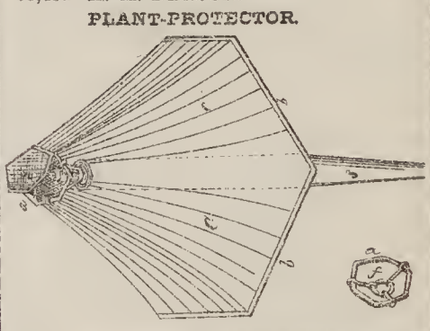
96,466, B. H. MUEHLE. **VELOCIPEDE.**



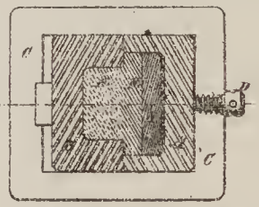
96,467, D. MURLLESS.
LATHE-BATH AND SPONGE-HOLDER FOR DENTISTS' USE.



96,468 H. K. NELSON.
PLANT-PROTECTOR.

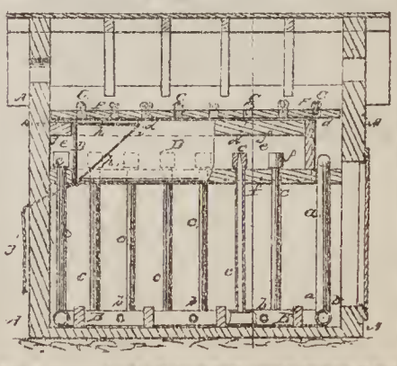


96,469, GEORGE NOCK.
MOULD FOR WELDING STEEL TO IRON.

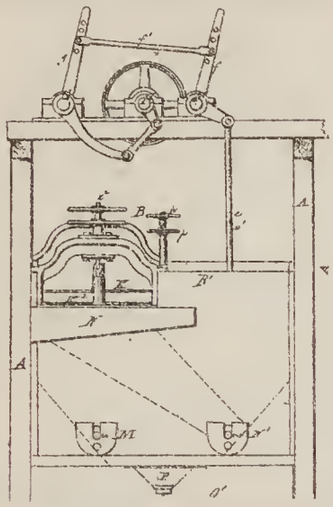


96,470, E. D. NORTON. **DOOR-SPRING.**

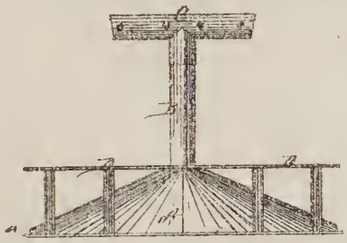
96,471, F. I. NORTON.
APPARATUS FOR DRYING LUMBER.



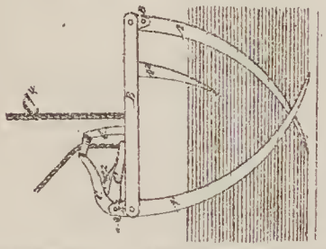
96,472, PET. OSTERSPEY.
APPARATUS FOR THE DISCHARGE AND PREPARATION OF GRANULAR ORE AND COAL, AND SIMILAR MATERIALS.



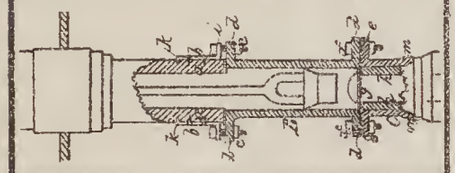
96,473 H. PACKER.
G. W. PACKER. WASH-BOILER.



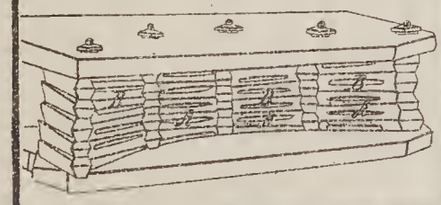
96,474, JAMES A. PARK.
HORSE HAY-FORKS.



96,475, A. N. PARKHURST. PUMPS.

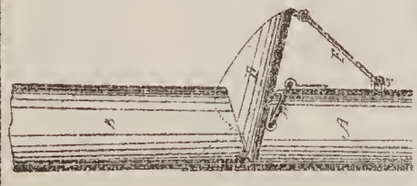


96,476, DAN. PEASE. SMUT-MILLS.

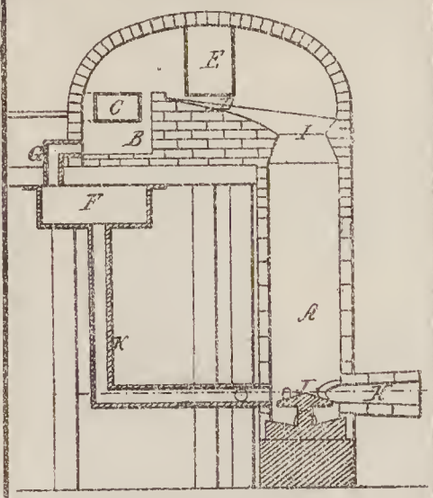


96,477. CALVIN PECK,
MODE OF PURIFYING RANCID BUTTER.

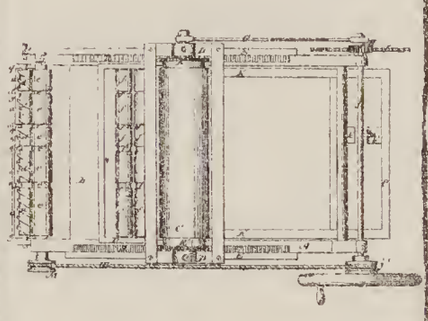
96,478, JAMES H. PERKINS.
CUT-OFFS FOR PIPES.



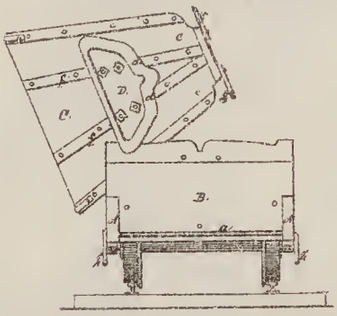
96,479, CHARLES PETERS.
MELTING AND DECARBONIZING IRON.



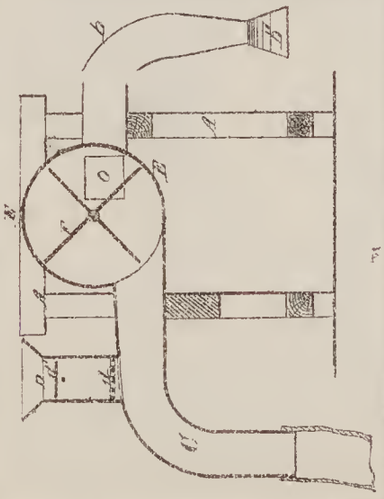
96,480, JAS. N. PHELPS.
PRINTING-PRESSES.



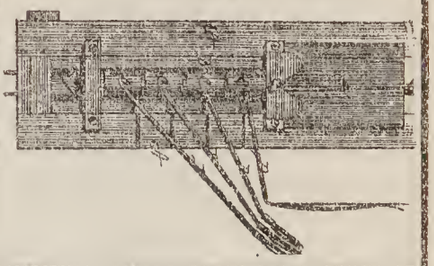
96,481, WILLIAM PRICE.
DUMPING-CAR FOR GRADING.



96,482, ERA ROSE.
DEVICE FOR REMOVING DUST FROM THRESHING-MACHINES.

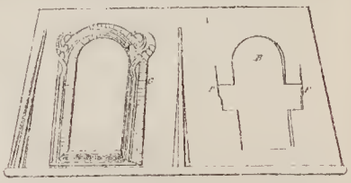


96,483, ISAAC M. ROSS.
APPARATUS FOR TURNING THE LEAVES OF MUSIC.

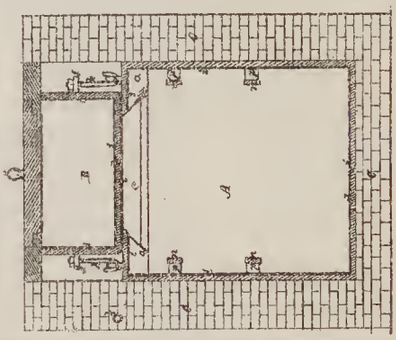


96,484, BENOIT ROUX.
SHOVEL AND TONGS-STAND.

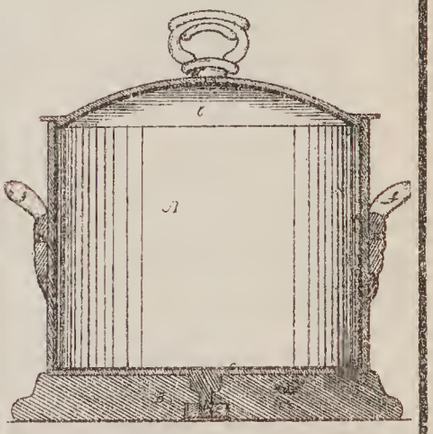
96,485, GEO. D. SANFORD. COAL-STOVE.



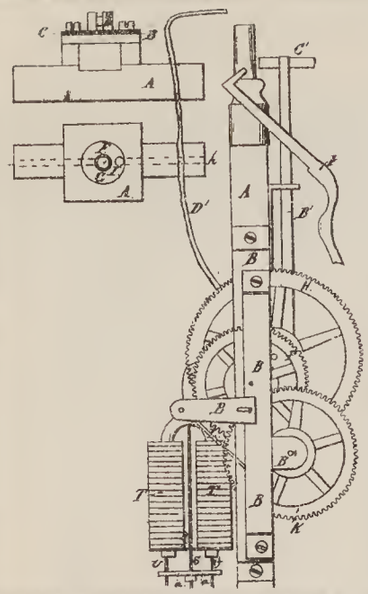
96,486, CHARLES C. SAVERY.
WATER-COOLER AND REFRIGERATOR.



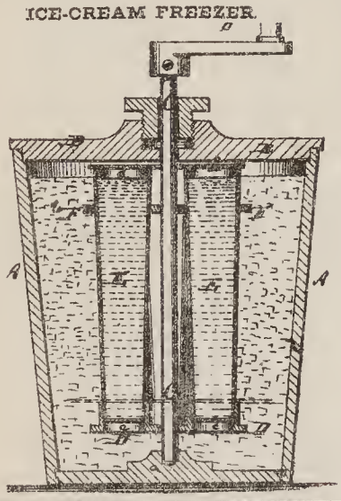
96,487, CHARLES C. SAVERY.
BREAD AND CAKE-RECEPTACLE.



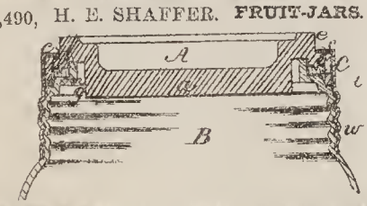
96,488, A. W. SCHARIT. L. A. HUDSON. D. LYMAN. ELECTRO-MAGNETIC GAS-LIGHTING APPARATUS.



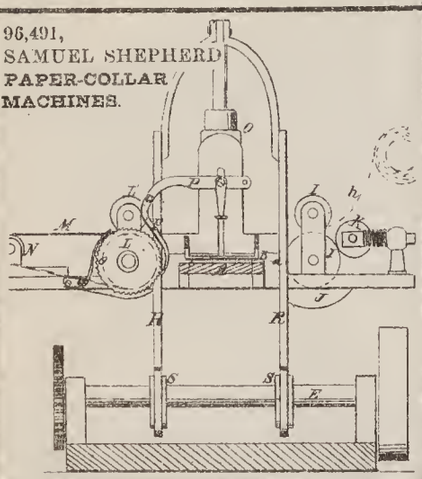
96,489, PAUL SCHUMACHER.
ICE-CREAM FREEZER.



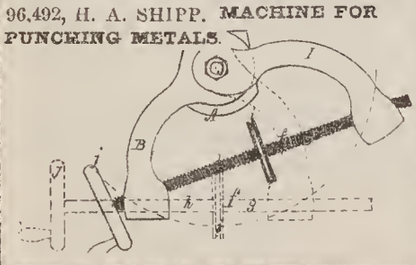
96,490, H. E. SHAFFER. **FRUIT-JARS.**

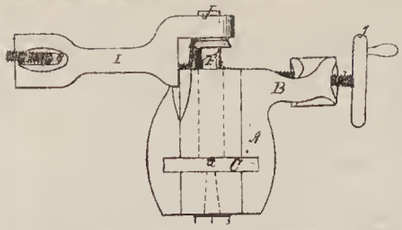


96,491,
SAMUEL SHEPHERD
PAPER-COLLAR MACHINES.

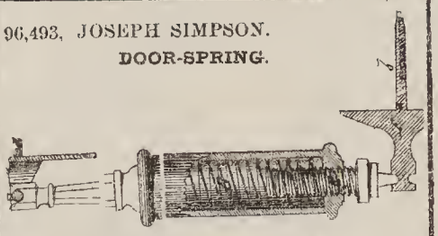


96,492, H. A. SHIPP. **MACHINE FOR PUNCHING METALS.**

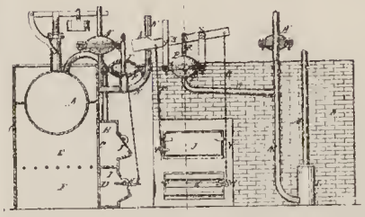




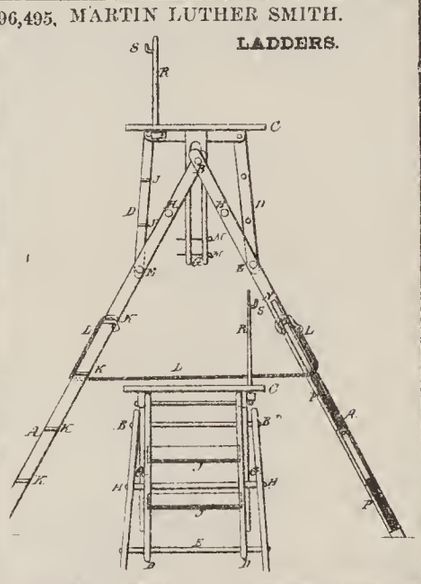
96,493, JOSEPH SIMPSON.
DOOR-SPRING.



96,494, JAMES J. SMITH.
SAMUEL WOOD.
DRAUGHT-REGULATORS.

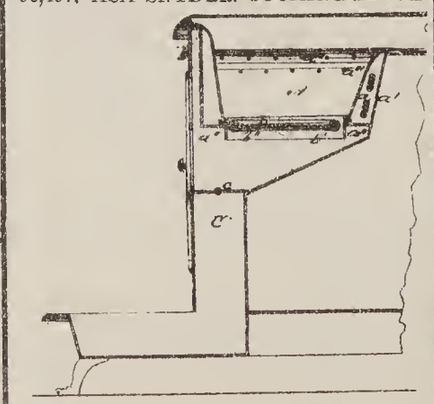


96,495, MARTIN LUTHER SMITH.
LADDERS.

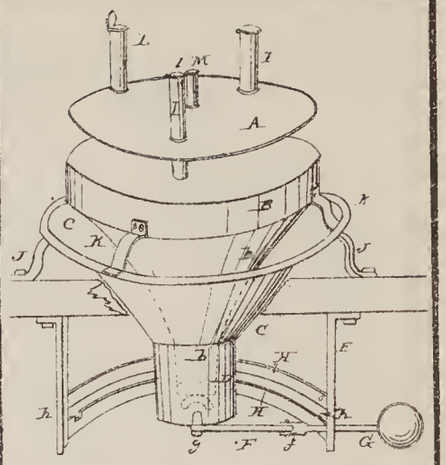


96,496, JOHN SNOW.
CATARRH REMEDY.

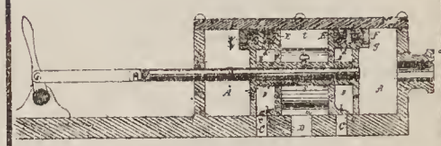
96,497, ASA SNYDER. **COOKING-STOVE**



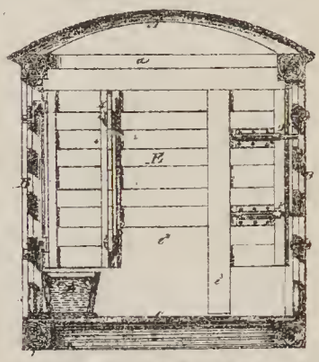
96,498, FRANK J. STEINHAUSER.
H. M. SHREINER.
RAILROAD-CAR HEATER.



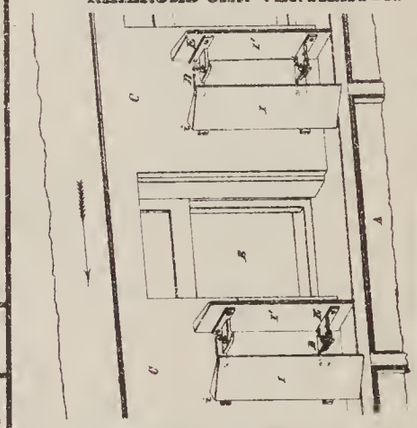
96,499, WM. M. STEVENSON.
SLIDE-VALVE.



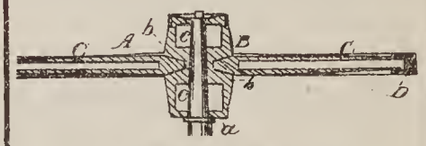
96,500, ZADOK STREET. **CATTLE-CAR.**

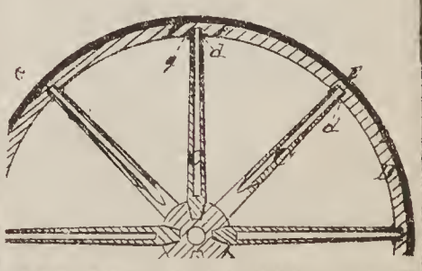


96,501, OVERTON J. STYNER.
JOHN EGAN.
RAILROAD-CAR VENTILATOR.

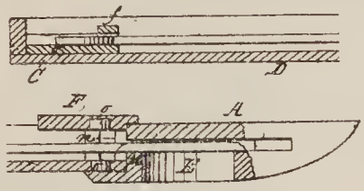


96,502, EDWIN SWASEY. **WHEELS.**

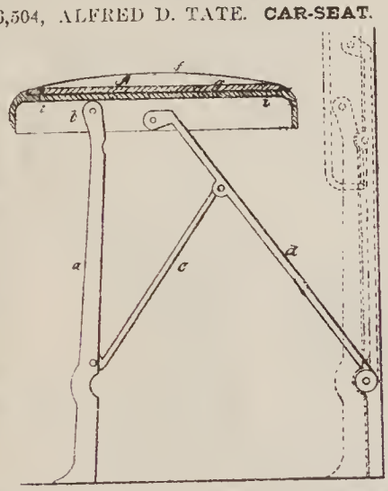




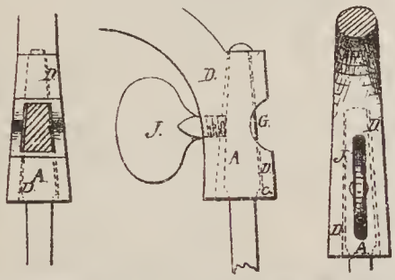
96,503, JAMES M. TAFT.
HARVESTER-CUTTERS.



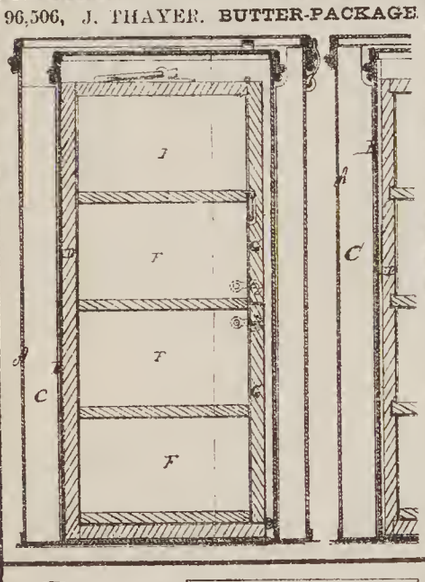
96,504, ALFRED D. TATE. **CAR-SEAT.**



96,505, O. H. TAYLOR. **BIT-STOCKS.**

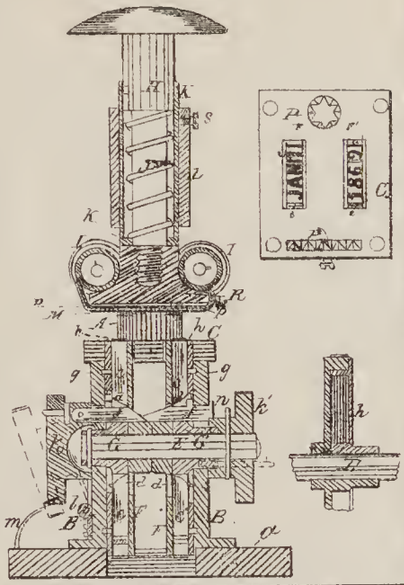


96,506, J. THAYER. **BUTTER-PACKAGE.**

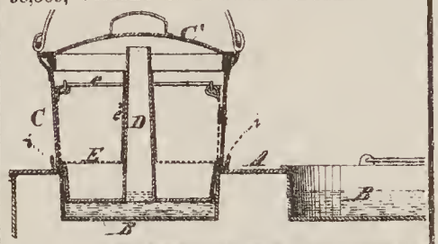


96,507,
LEVI TILL.
WINDOW.

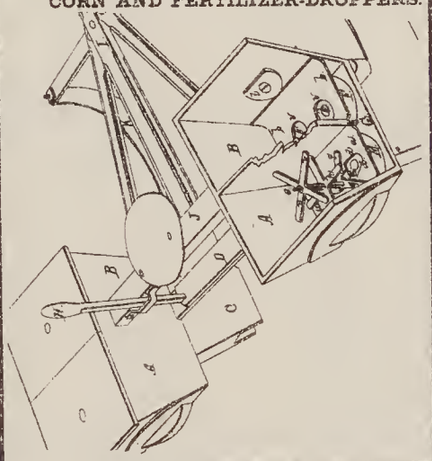
96,508, JOSEPH C. TONE.
HENRY A. CLUM.
HAND-STAMPS.



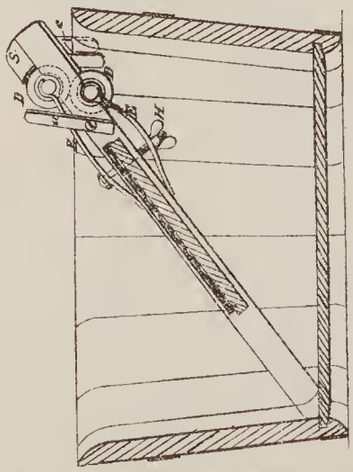
96,509, JAMES S. TOTTEN. **BOILER.**



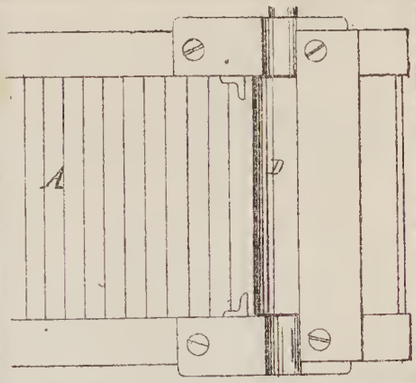
96,510, ADAM TOWBERMAN.
JOHN KEYS.
CORN AND FERTILIZER-DROPPERS.



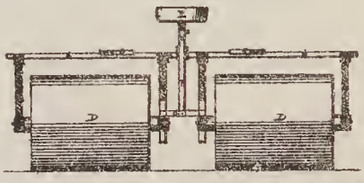
96,511, AMBROSE TOWER.
CLOTHES-WRINGERS.



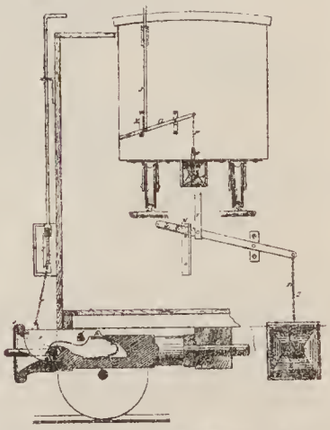
96,512. AMBROSE TOWER.
WASH-BOARD AND WRINGER-FRAME.



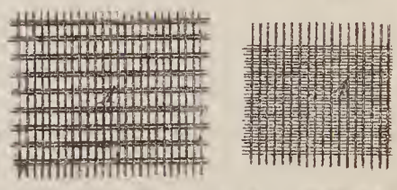
96,513. EDWARD A. UEHLING.
LAND-ROLLER.



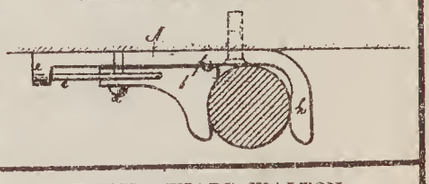
96,514, M. VAN SLYKE.
D. W. WOOD.
CAR-COUPLING.



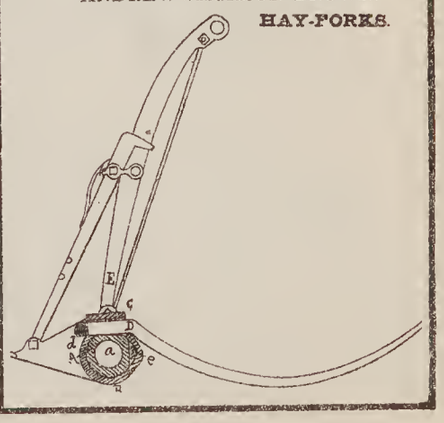
96,515, HEINR. VOELTER.
WOOD-PULPING MACHINES.



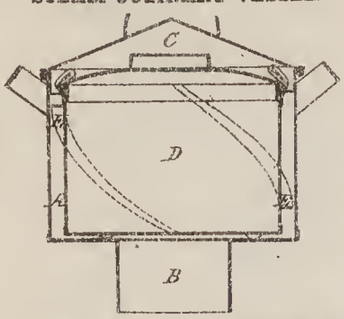
96,516, BENJ. D. WALLACE.
BROOM AND BRUSH-HOLDER.



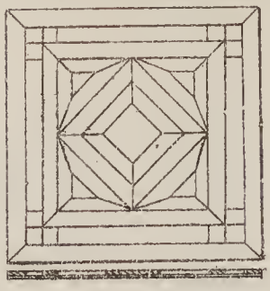
96,517, ELISHA WIARD WALTON.
ANDREW JACKSON BROWN.
HAY-FORKS.

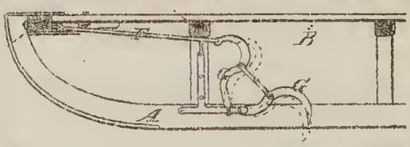


96,518, CYRUS WATERMAN.
STEAM CULINARY VESSEL.

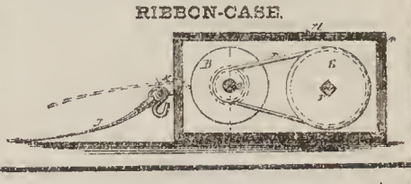


96,523, HENRY WHITTEMORE.
ORNAMENTAL COVERING FOR FLOORS, WALLS,

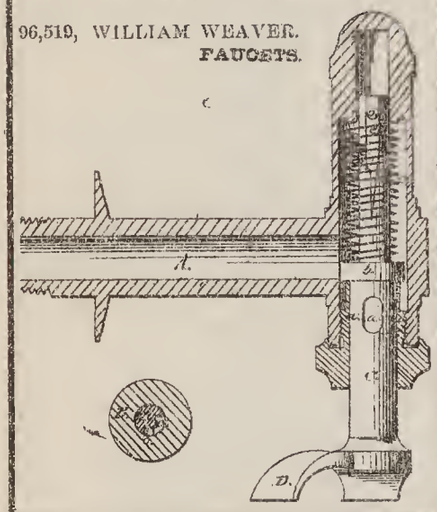




96,530, GEO. F. WOOLSTON.
RIBBON-CASE.



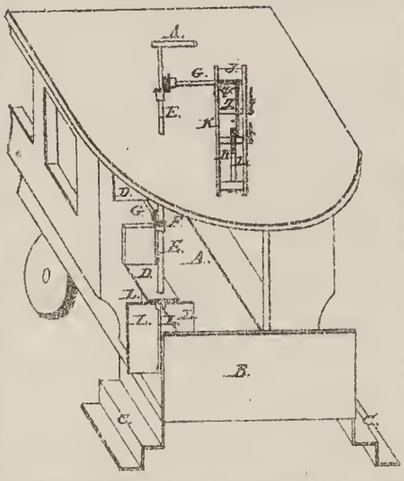
96,519, WILLIAM WEAVER.
FAUCETS.



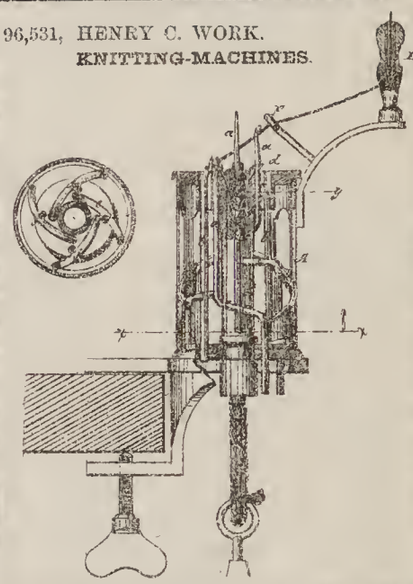
96,524, FRED. WILCOX. PROCESS OF REFINING THE WASTE FROM GERMAN SILVER AND OTHER METALS.

96,525, FRED. WILCOX.
PROCESS OF UTILIZING THE WASTE FORMED IN CLEANING COPPER AND BRASS GOODS.

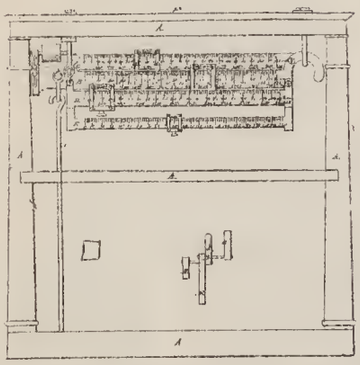
96,526, WM. W. WILLIS. PASSENGER-REGISTERS FOR STREET-CARS.



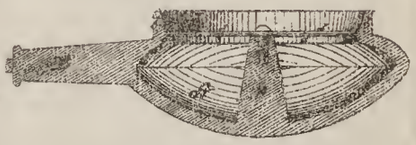
96,531, HENRY C. WORK.
KNITTING-MACHINES.



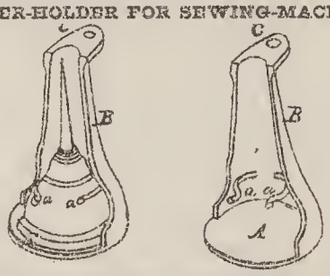
96,520, JOHN WEEKS.
WEIGHING-SCALES.



96,532, JOHN A. FULLER.
FIRE-KINDLER.



96,527, A. WILMOT.
OILER-HOLDER FOR SEWING-MACHINE

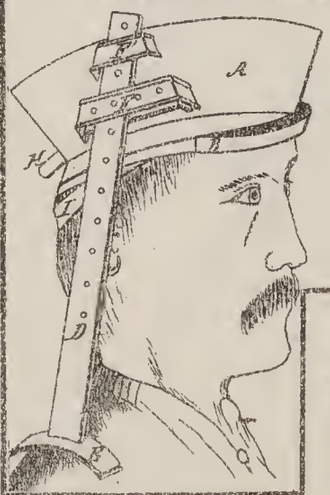


96,533, ALBERT H. SHIPMAN.
EXTENSION-TABLE SLIDES.

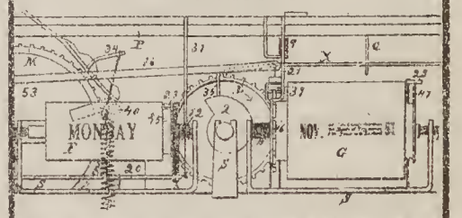
96,521, JAY WHEELOCK.

BALE-TIE LOCK.

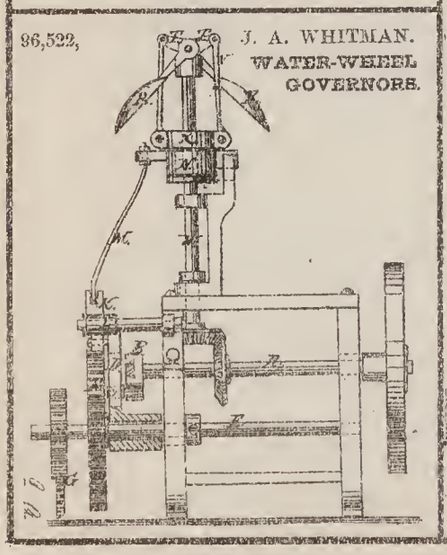
96,528, MARK L. WINN.
SHAMPOOING-APPARATUS.



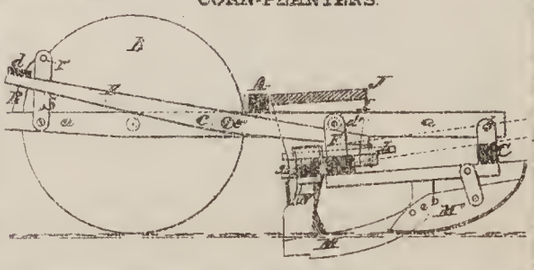
3,694, WM. H. AKINS.
JOSEPH C. BUERITT.
CALENDAR-CLOCKS.



96,522, J. A. WHITMAN.
WATER-WHEEL GOVERNORS.



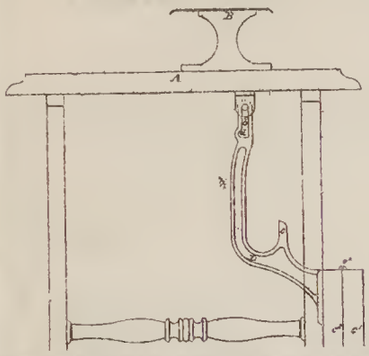
3,695, JAMES ARMSTRONG,
CORN-PLANTERS.



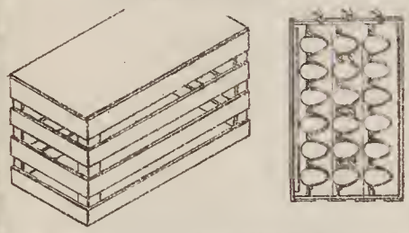
96,529, JUDSON WOLFE.
WILSON WOLFE.
SLEIGH-BRAKE.

3,696. THOMAS BAKEWELL.
TRADE-MARK.

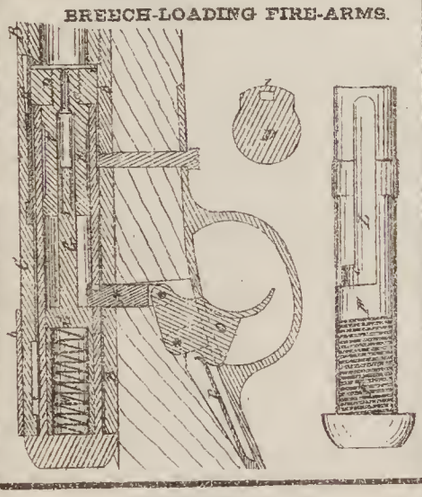
3,697, JAMES BLAKE.
AUXILIARY TABLE.



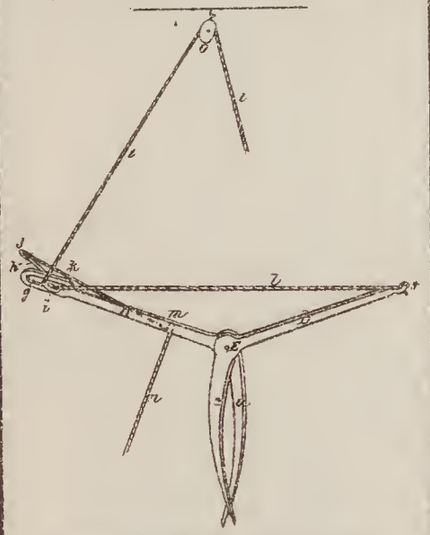
3,698, ABNER H. BRYANT.
EGG-CARRIER.



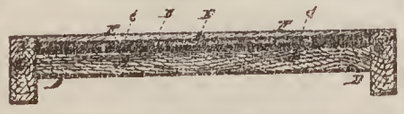
3,699. BETHEL BURTON.
BREECH-LOADING FIRE-ARMS.



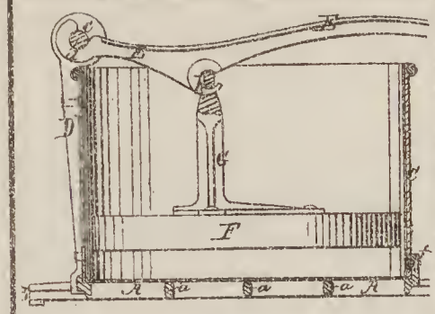
3,700, E. P. GLEASON. HAY-FORK.



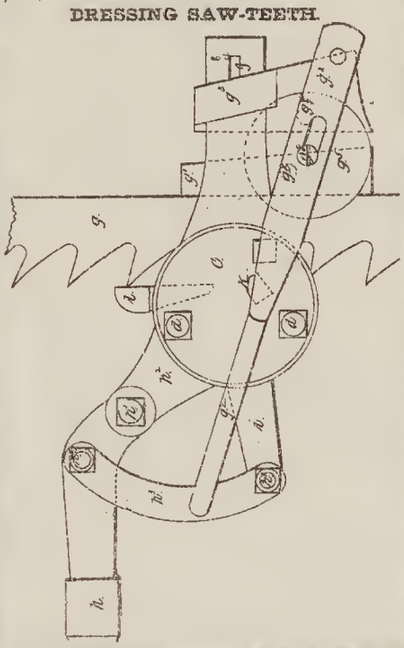
3,701, ROBT. K. KILLE.
ROOFING.



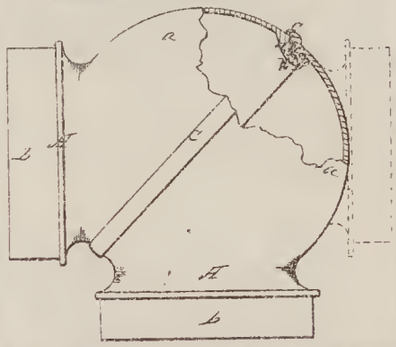
3,702, JOSEPH H. LITTLEFIELD.
PRESS AND STRAINER.



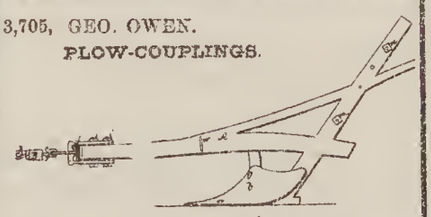
3,703, JOHN LOUGH.
DRESSING SAW-TEETH.



3,704, H. B. MORRISON.
C. L. MORRISON.
STOVE-PIPE ELBOW.



3,705, GEO. OWEN.
PLOW-COUPLINGS.



3,706, ROBT. ANDREWS. COMPOSITION FOR STUFFING LEATHER.

3,707, ROBT. ANDREWS. PROCESS OF TREATING TAR FOR THE MANUFACTURE OF STUFFING FOR LEATHER.

3,708, FREEMAN F. REYNOLDS.
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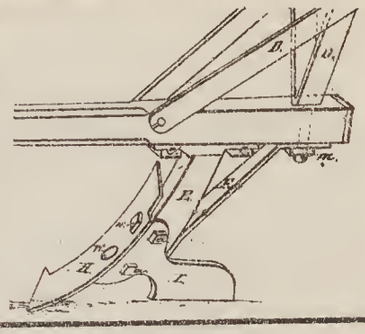
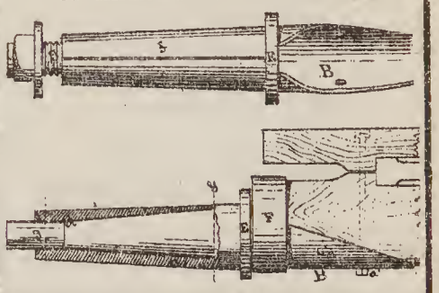


3,709, GOTTLIEB SCHREYER.
MODE OF MAKING THE SKEINS OF AXLE-ARMS FOR CARRIAGES.



3,710, CHESTER STONE.
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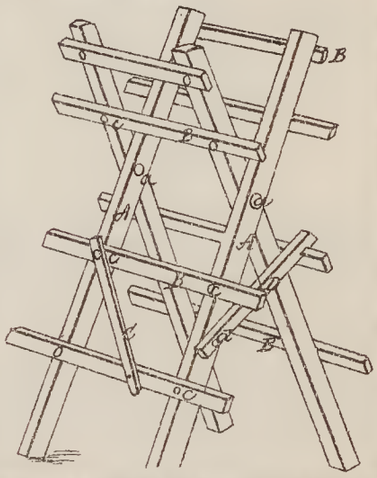
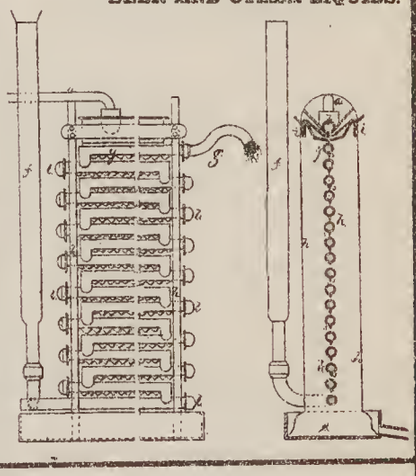


3,711, GEO. B. TURRELL.
APPARATUS FOR COOLING BEER AND OTHER LIQUIDS.



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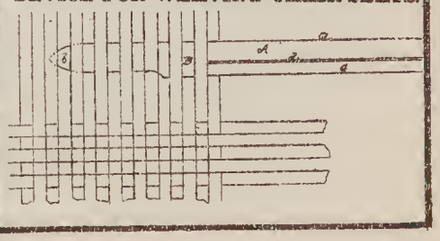
DEVICE FOR WEAVING CHAIR-SEATS.



ILLUSTRATIONS OF PATENTS

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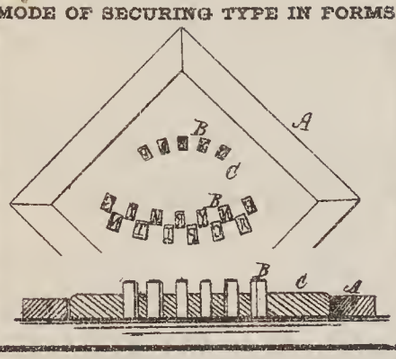
96,534, SAML. ANDERSON.
THOS. J. FOLAN.
MODE OF SECURING TYPE IN FORMS.



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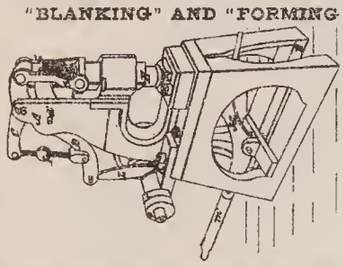
W. J. GORDON.
DOUBLE-ACTING PRESSES FOR "BLANKING" AND "FORMING UP"



96,536, ALBERT ARMITAGE.
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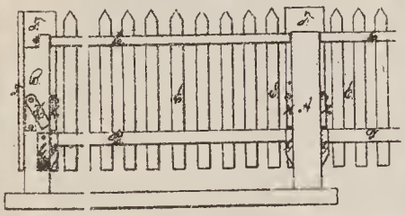
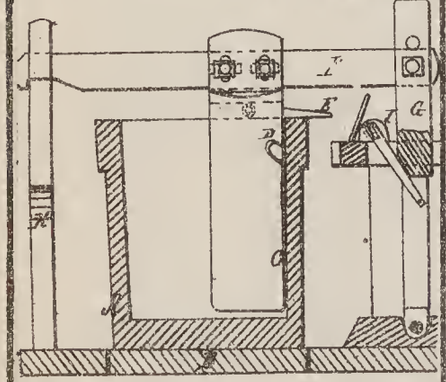
PORTABLE FENCE.



96,537, JOSEPH H. BADDELEY.
APPARATUS FOR SHAPING EARTHENWARE.



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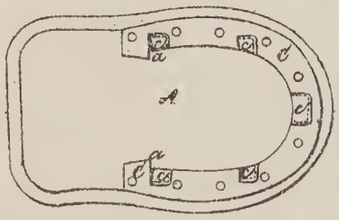
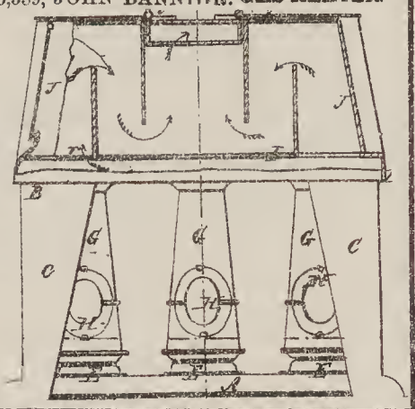
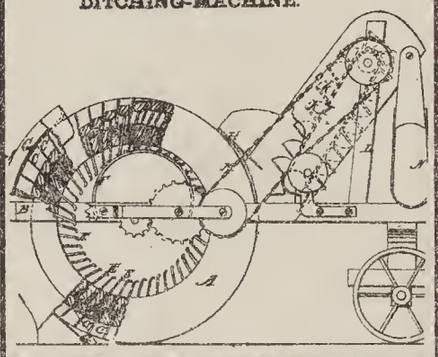
DETACHABLE BOOT AND SHOE-HEELS.



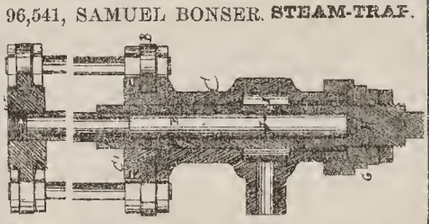
96,539, JOHN BANNIER. **GAS-HEATER.**



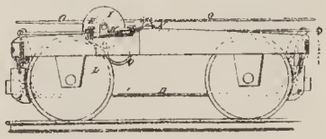
96,540, HENRY BENETT.
DITCHING-MACHINE.



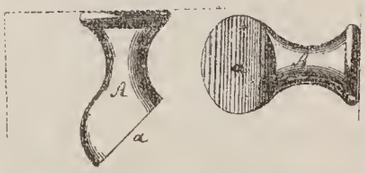
96,541, SAMUEL BONSER. **STEAM-TRAP.**



96,542, MARCUS S. BORTHWICK.
RAILWAY-CAR BRAKE.



96,543, WM. BOYRER.
ORGAN-STOP HANDLE.



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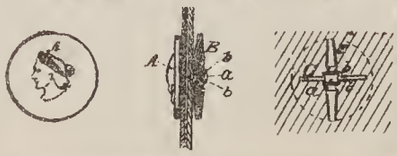

96,545, THOMAS H. BRADY.
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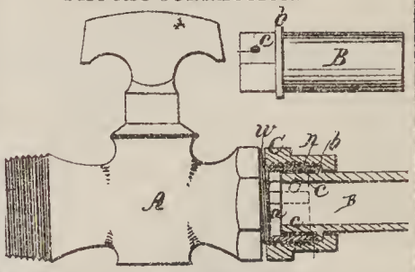

96,546, JAMES CAMPBELL.
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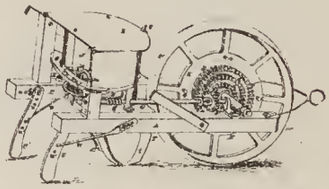

96,547, GEORGE W. CARPENTER.
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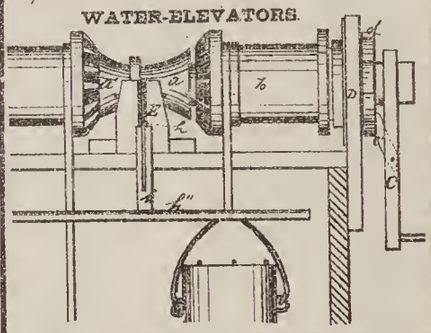
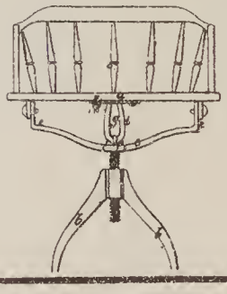


96,548, JEFFERSON CHASE. **CHAIR.**



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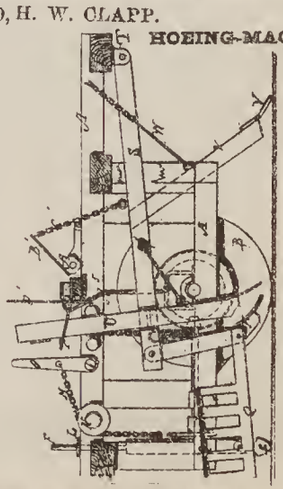
HOEING-MACHINES.



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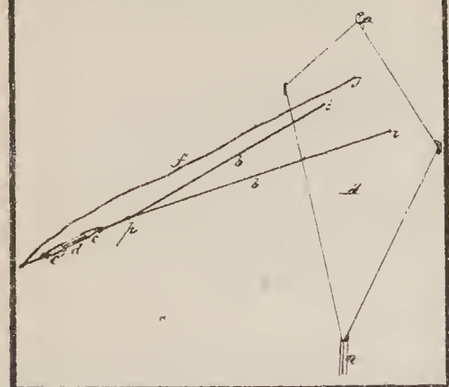
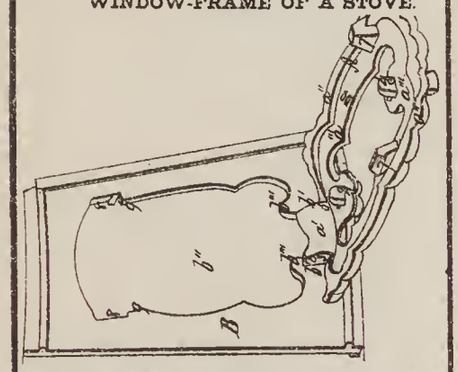


96,551, THOS. J. COULSTON. **HINGE FOR A DOOR OR WINDOW-FRAME OF A STOVE.**



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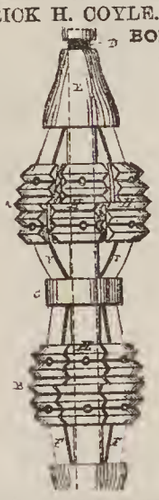

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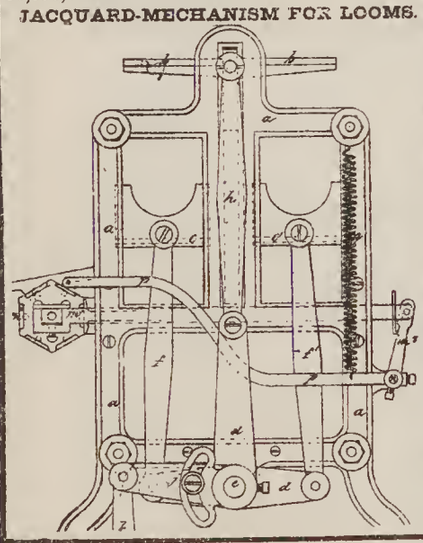
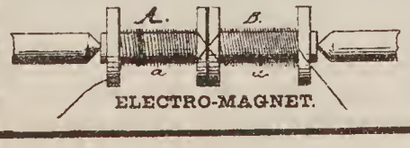


96,554, WILLIAM EDWARD DAVIS.



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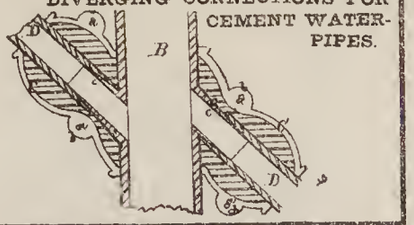
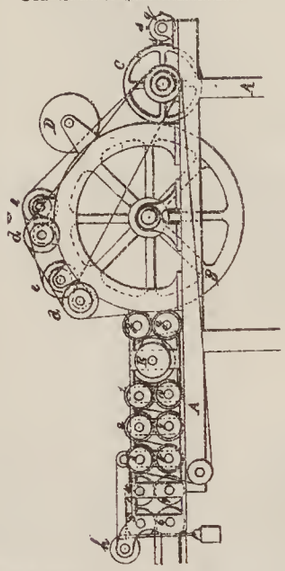
96,555, EDWIN DAYTON. **LATERAL OR DIVERGING CONNECTIONS FOR CEMENT WATER-PIPES.**



96,556, JAMES DEMPSTER. HENRY HOLCROFT. **CARDING-MACHINES.**



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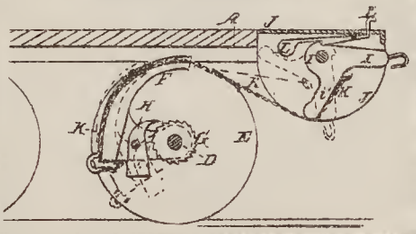
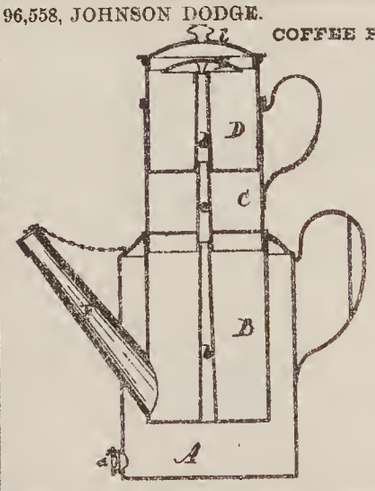
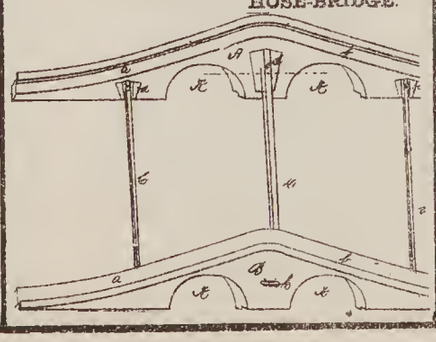


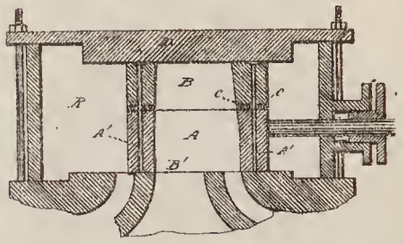
96,558, JOHNSON DODGE. **COFFEE POT.**



96,559, WILLIAM DONOGHUE. FREDERICK L. CHARLTON. **HOSE-BRIDGE.**



96,560, DAVID DORMAN. **BALANCE SLIDE-VALVES.**



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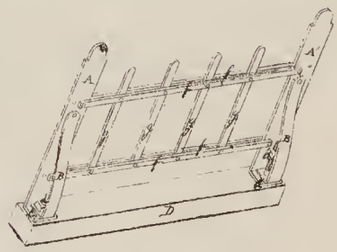

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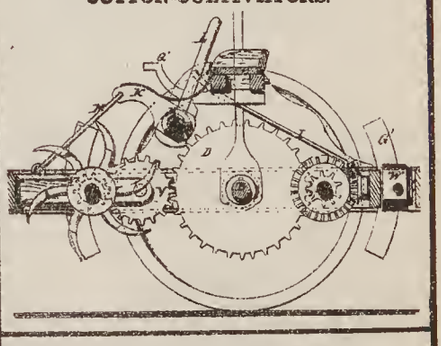

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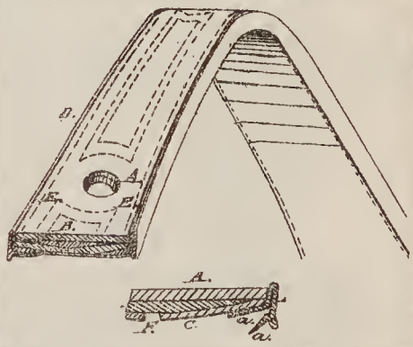

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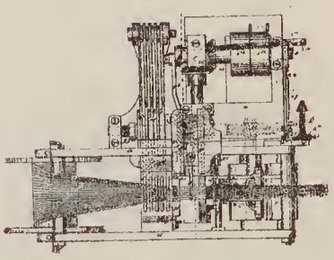

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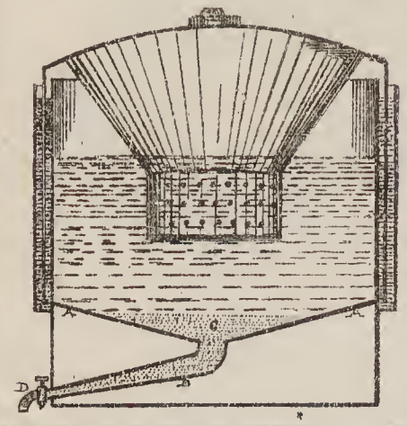

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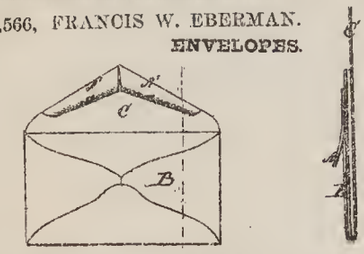

96,567 THOMAS A. EDISON,
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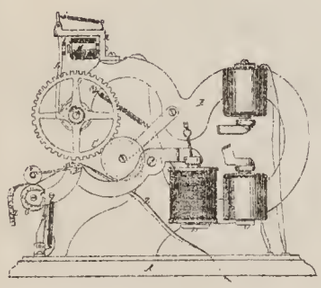

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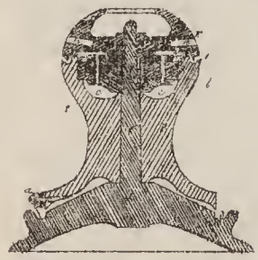

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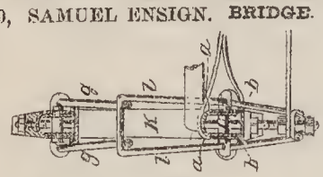
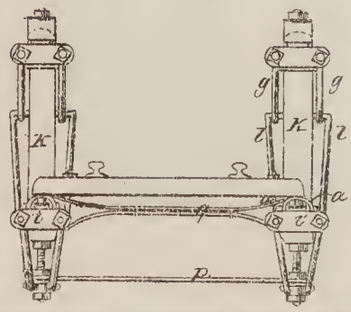
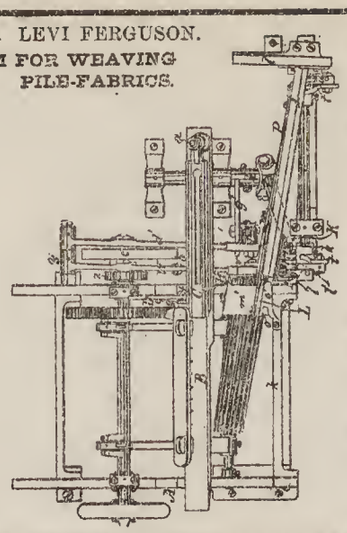




96,570. LEVI FERGUSON.
LOOM FOR WEAVING PILE-FABRICS.



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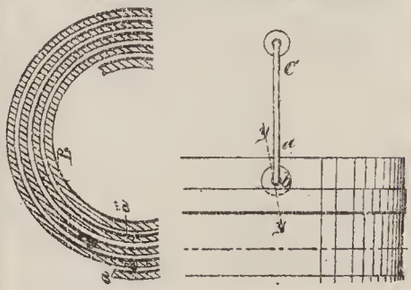

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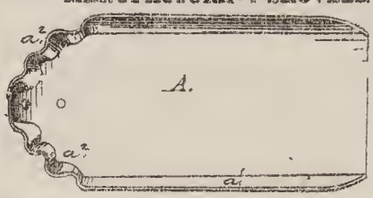
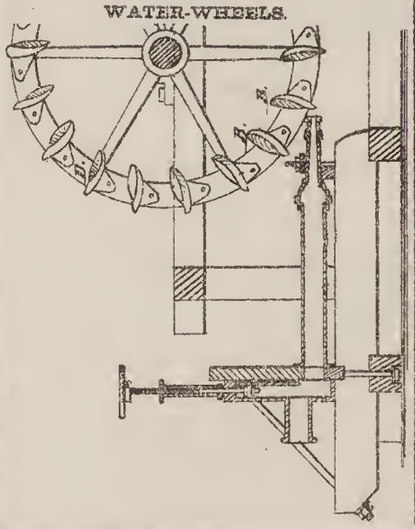
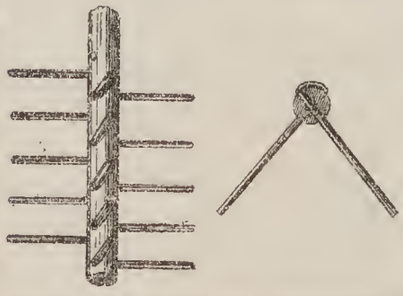


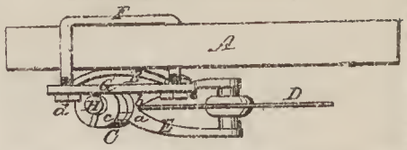
96,573, J. G. FREDENBURG.
W. V. ANDREWS.
WATER-WHEELS.



96,574, JOHN FRYMIRE. **FLY-NETS.**



96,575, CONRAD FURST.
COULTERS FOR PLOWS.



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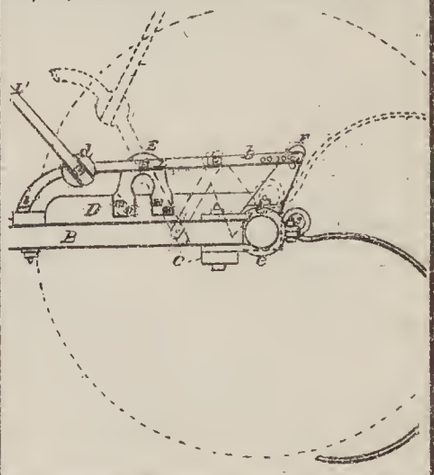

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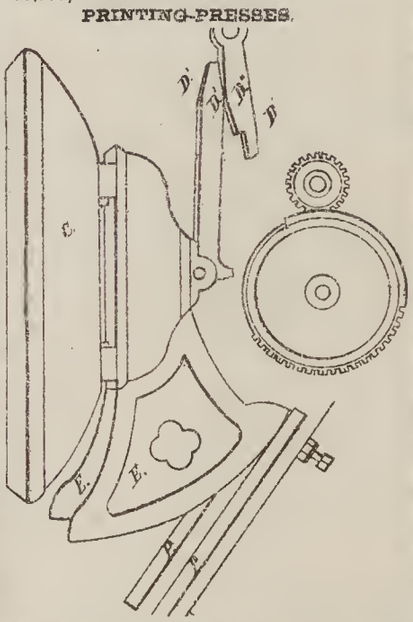
PRINTING-PRESSES.



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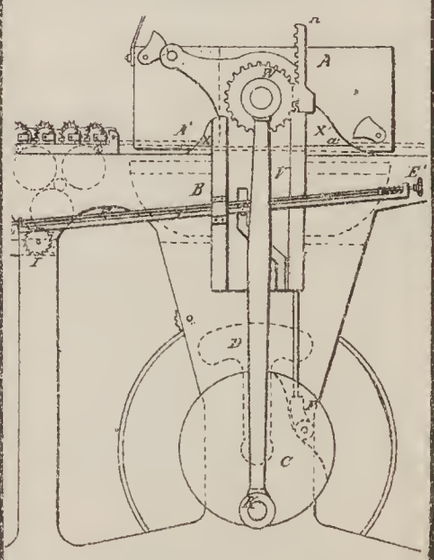
PRINTING-PRESSES.



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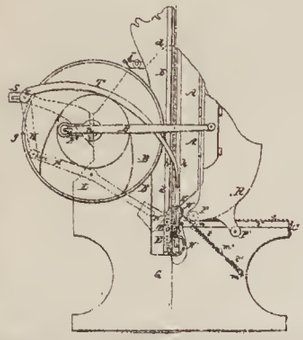
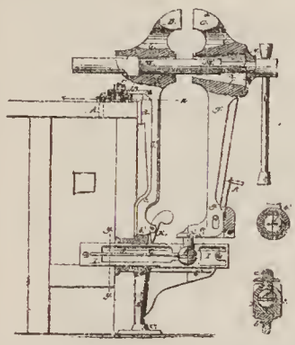
PRINTING-PRESSES.



96,580, O. H. GARDNER. VISES.



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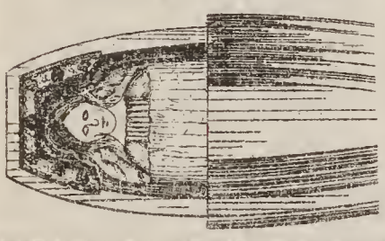
HEAD-BRACE FOR COFFINS.



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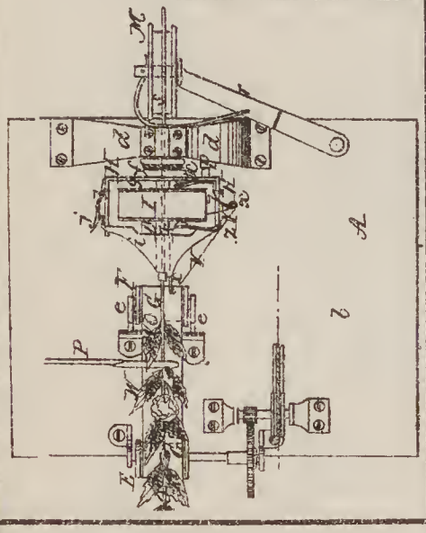
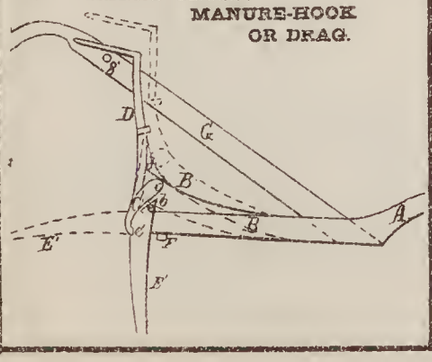
MACHINE FOR BRANCHING ARTIFICIAL FLOWERS.



96,583, HENRY GROSS.
MANURE-HOOK OR DRAG.



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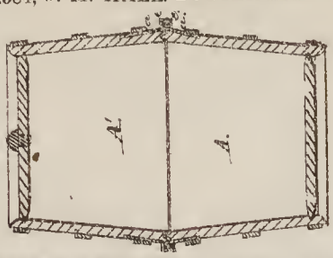

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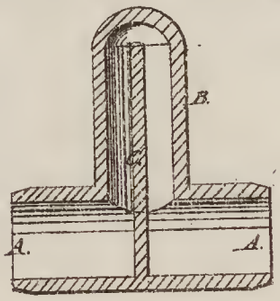

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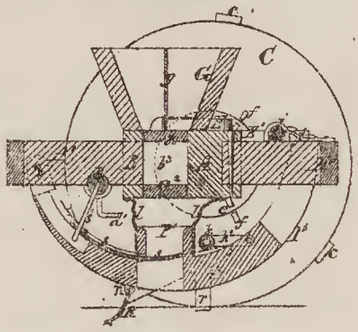
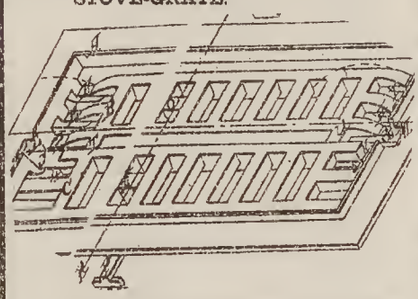
CORN-PLANTERS.



96,587, E. S. HARRIS.
MANUFACTURE OF ARTIFICIAL AND PRESERVATION OF NATURAL FLOWERS.

96,588, DAVID HATHAWAY.
STOVE-GRATE.



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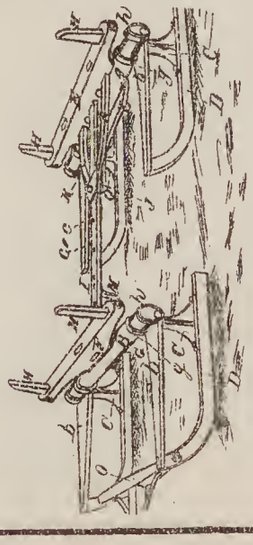

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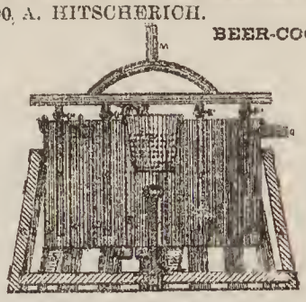
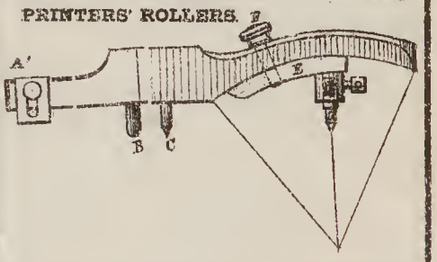
BEER-COOLERS.



96,591, JOHN HOPE.
DIAMOND-HOLDERS FOR ENGRAVING PRINTERS' ROLLERS.



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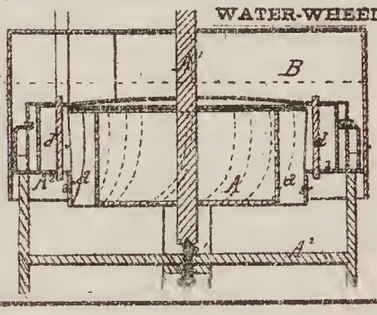
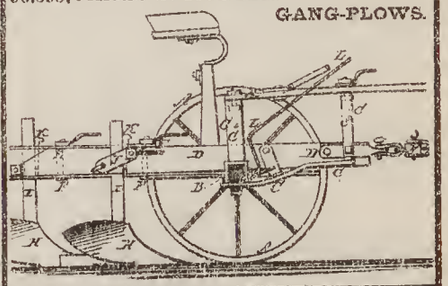
WATER-WHEELS.



96,593, JAMES B. HUNTER.
GANG-PLOWS.



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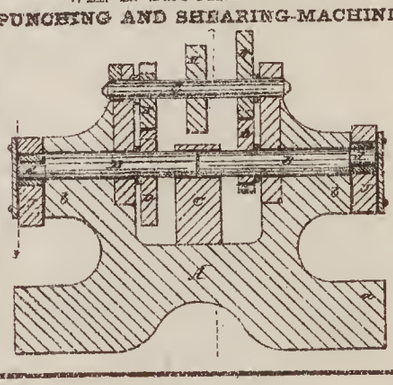
WM. E. BROOKE.
PUNCHING AND SHEARING-MACHINE.



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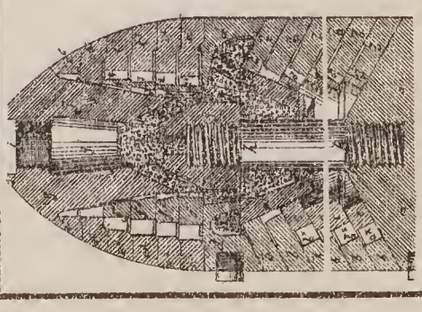
EXPLOSIVE PROJECTILES.



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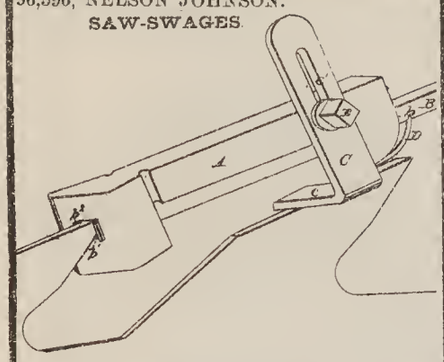
SAW-SWAGES.



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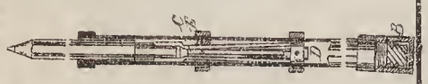

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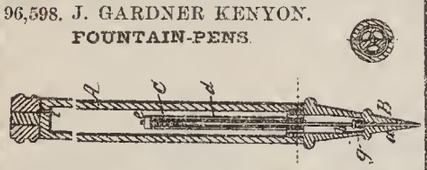
FOUNTAIN-PENS.



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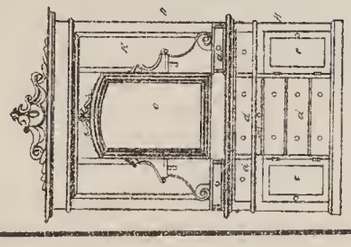
TOILET-BEDSTEAD.



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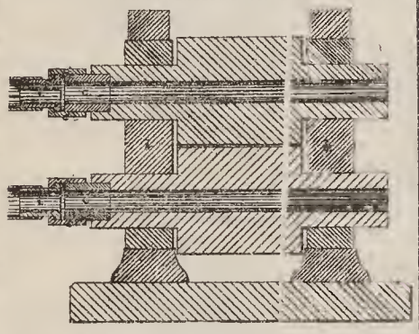
METAL-ROLLING APPARATUS.



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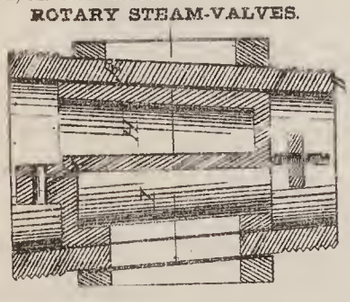
ROTARY STEAM-VALVES.



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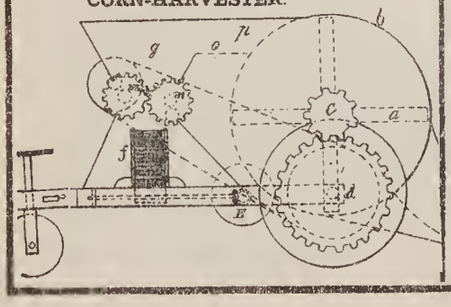
CORN-HARVESTER.



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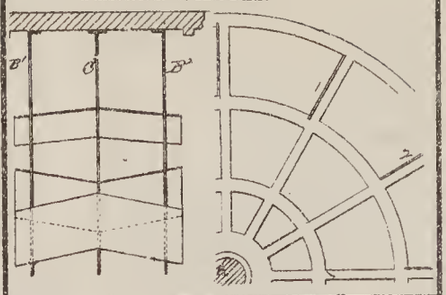
PADDLE-WHEELS.



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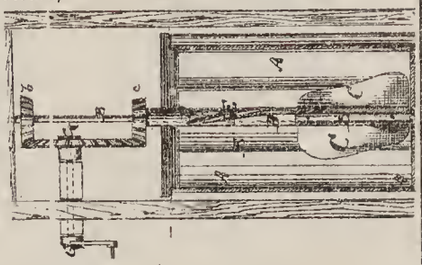

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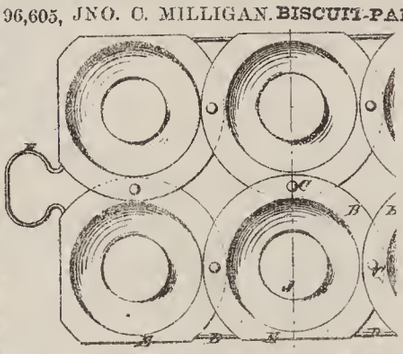

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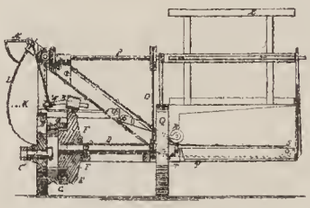

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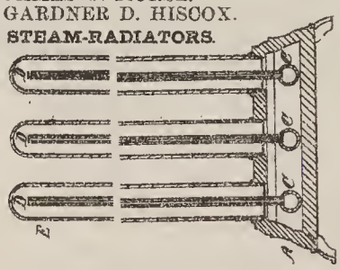
GARDNER D. HISCOX.
STEAM-RADIATORS.



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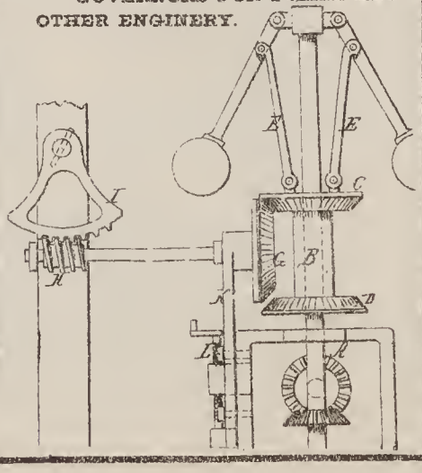
GOVERNORS FOR STEAM AND OTHER ENGINERY.



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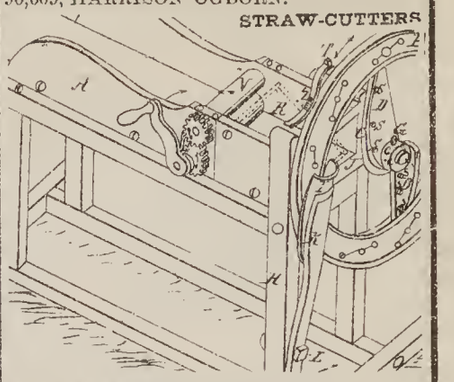
STRAW-CUTTERS



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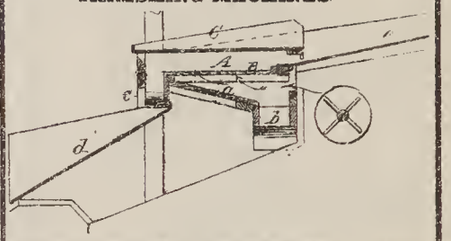
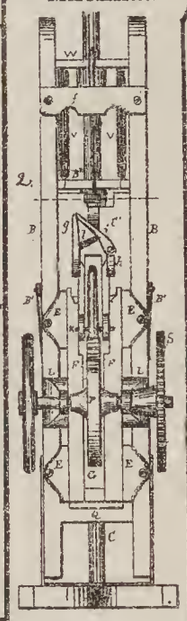
WHIFFLETREE.

96,611, WILLIAM H. PERRY.
THRESHING-MACHINES.



96,612,
G. B. PHILLIPS.
ROCK-DRILLING MACHINE.



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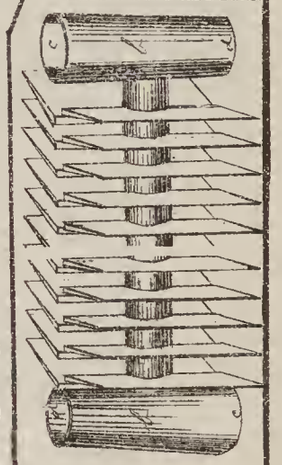
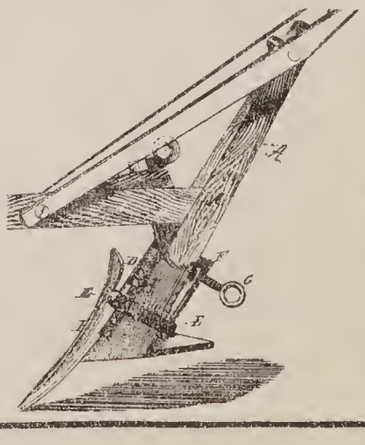
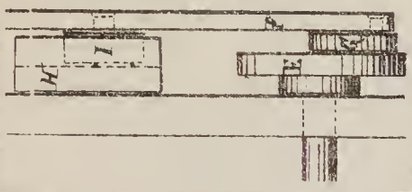
S. M. PIKE.
HEAT-RADIATORS.



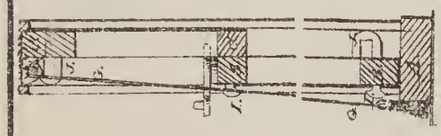
96,614 WILLIAM R. POOL.
PLOWS.



96,615, NELSON READ.
MODE OF TRANSMITTING MOTION.



96,616, SAMUEL REED.
WINDOW-SASH FASTENING.



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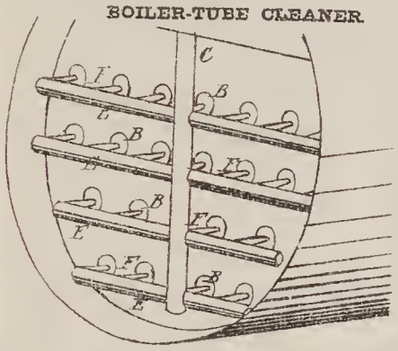
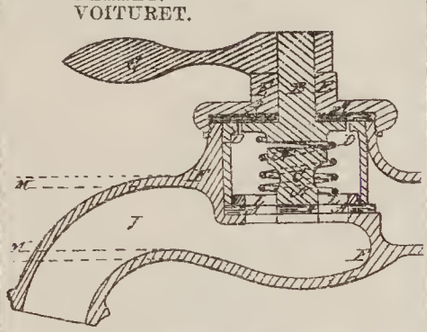
BOILER-TUBE CLEANER.



96,618, CL. RENARD. TAP-COCKS.
PERRET.
VOITURET.



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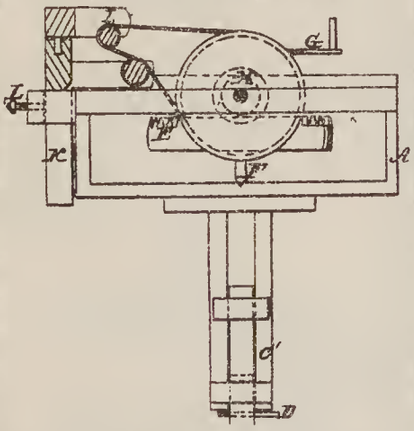
HAND-SPINNING MACHINE.



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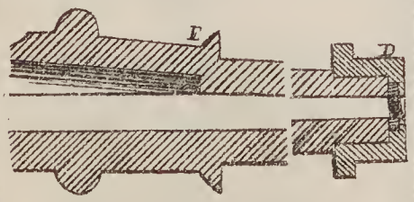
AXLE-SKEIN.



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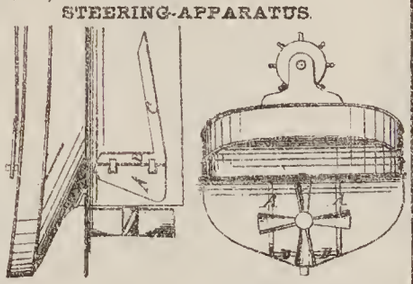
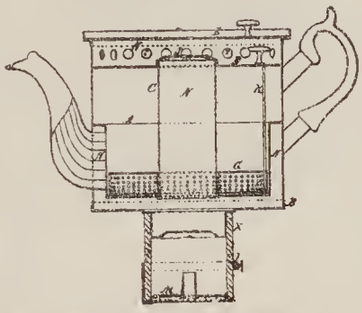
JOHN SPARKS.
MAKING TOY-TORPEDOES.

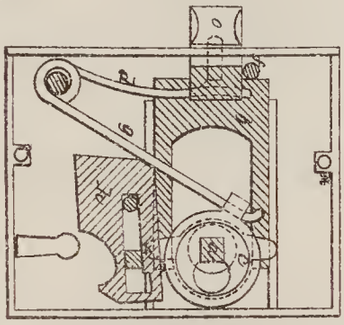
96,622, A. A. SCANK.
STEERING-APPARATUS.



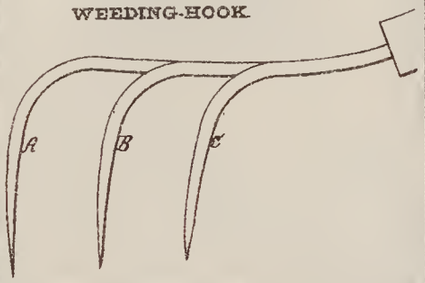
96,623, EILERT O. SCHARTAU.
GAS HEATER.



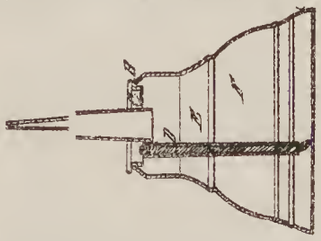
96,624, G. A. SEAVER. LATCH.



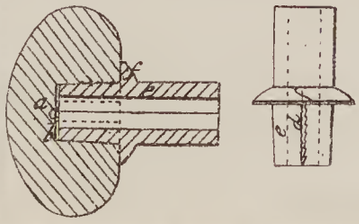
96,625, THOMAS J. SECOR.
CHARLES E. SHUMWAY.
WEEDING-HOOK.



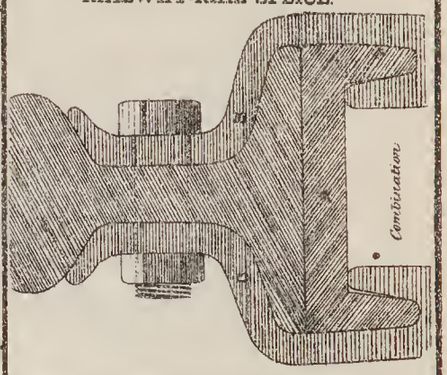
96,626, FRANKLIN SKINNER. OIL-CANS.



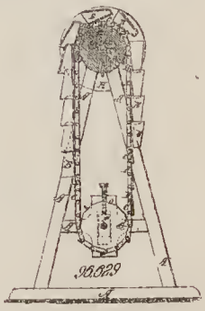
96,627, THOS. J. SLOAN. DOOR-KNOB



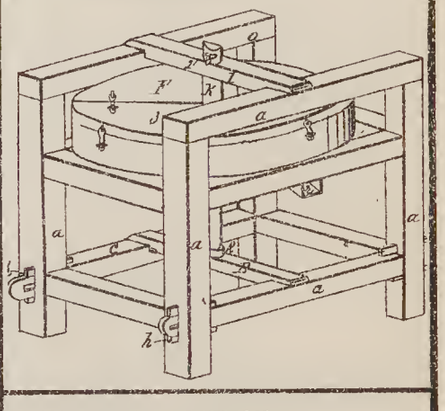
96,628, JASPER SNELL.
JOHN M. CROSLAND.
RAILWAY-RAIL SPLICE.



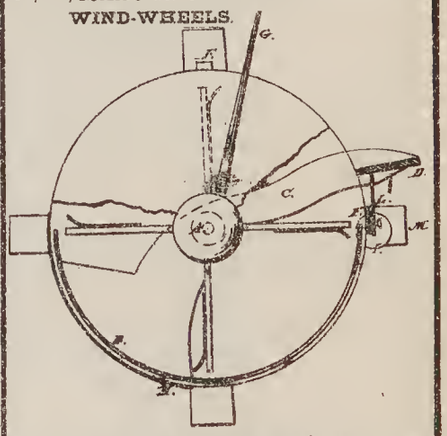
96,629, H. S. STEWART.
ENDLESS-CHAIN WATER-WHEELS.



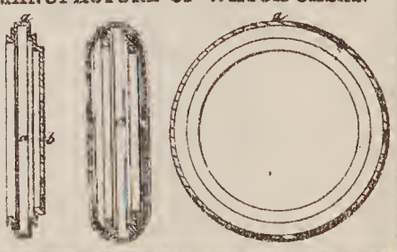
96,630, JACOB STROOP.
GRAIN-CLEANERS.



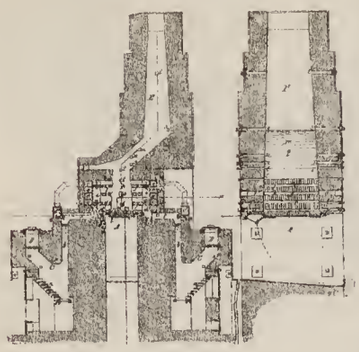
96,631, ISAAC H. SUTTON.
WIND-WHEELS.



96,632, CHARLES L. THIERY.
MANUFACTURE OF WATCH-CASES.



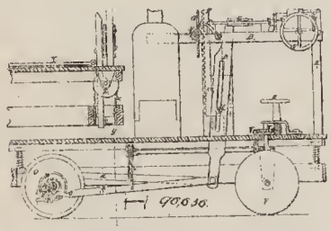
96,633, ALOIS THOMA.
PROCESS AND APPARATUS FOR CONVERTING CAST-IRON INTO STEEL.



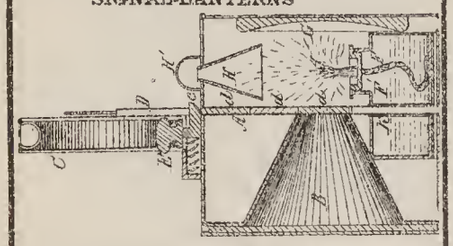
96,634, WILLIAM S. THOMAS.
ENAMEL OR GLAZE FOR POTTERY, BRICK, TILES, &c.

96,635, R. W. THOMSON.
WHEELS FOR SELF-MOVING CARRIAGES.

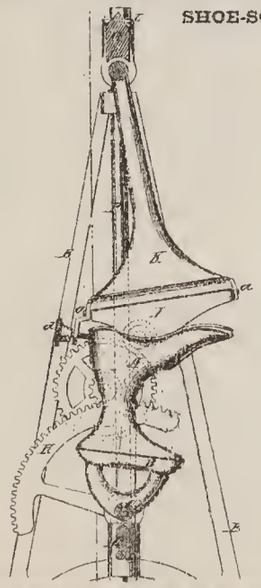
96,636, GEORGE N. TIBBLES.
TRACTION-ENGINE.



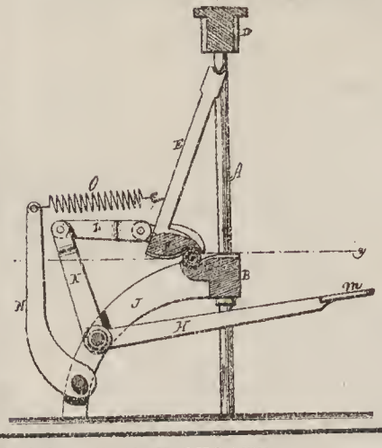
96,637, DAVID TODD.
SIGNAL-LANTERNS



96,638, S. D. TRIPP.
MACHINE FOR SHAPING BOOT AND SHOE-SOLES.

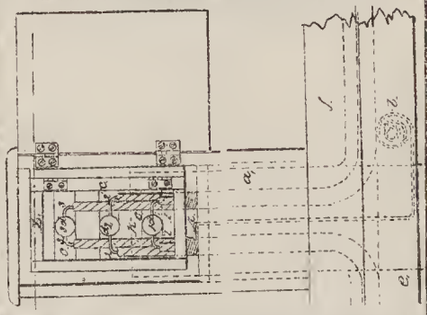


96,639, S. D. TRIPP.
DEVICE FOR MOULDING SOLES OF BOOTS AND SHOES.

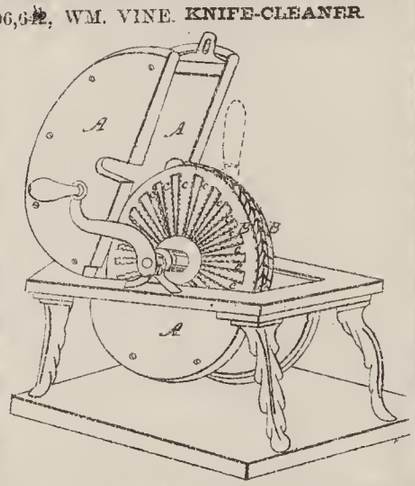


96,640, S. F. VAN CHOATE.
DISTILLING ALCOHOLIC LIQUORS.

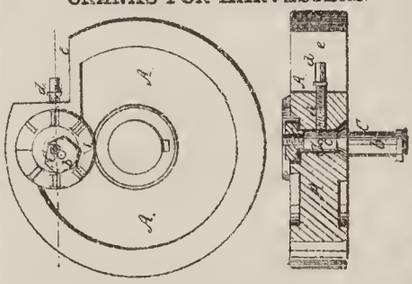
96,641, S. F. VAN CHOATE.
CABLES AND TESTING-POSTS FOR SUBTERRANEAN TELEGRAPHS.



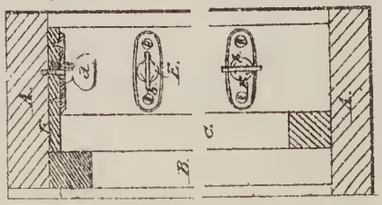
96,642, WM. VINE. KNIFE-CLEANER.



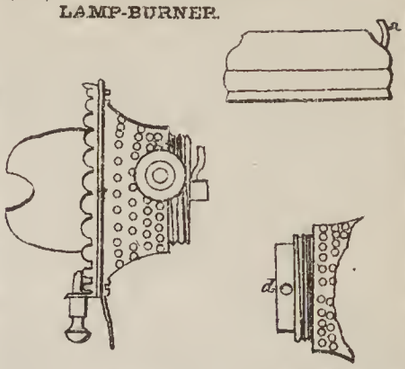
96,643, HIRAM L. WANZER.
CRANKS FOR HARVESTERS.



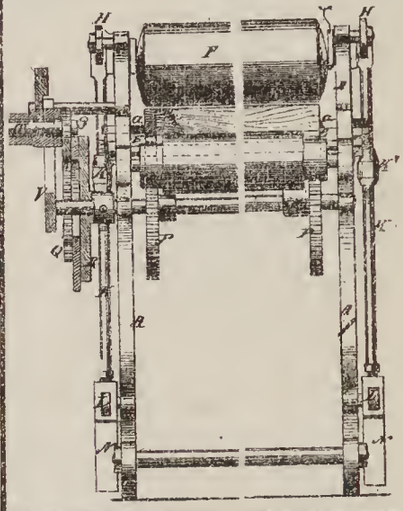
96,644, OTIS WARD WINDOW-FRAME.



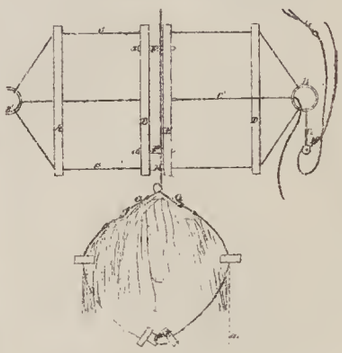
96,645, WILLIAM WESTLAKE.
LAMP-BURNER.



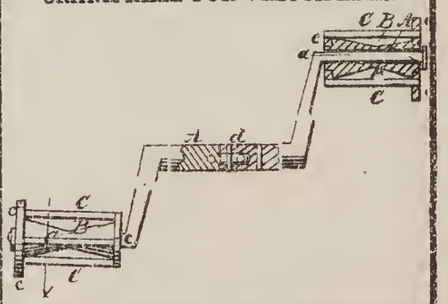
96,646, JAMES B. WESTWICK. MANGLE.



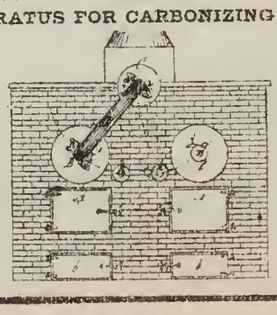
96,647, E. L. YANCY. HAY-ELEVATOR



96,648, McCLINTOCK YOUNG.
CRANK-AXLE FOR VELOCIPEDES.

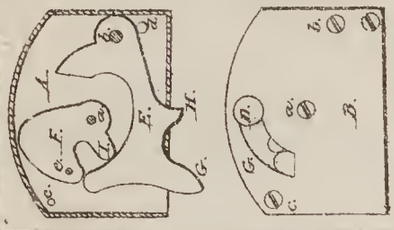


96,649, JOHN ADAMS.
APPARATUS FOR CARBONIZING PEAT.

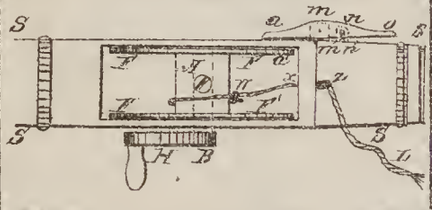


96,650, ROBERT A. ADAMS.
COMPOUND VENEER AND ORNAMENTAL COVERING FOR ARTICLES.

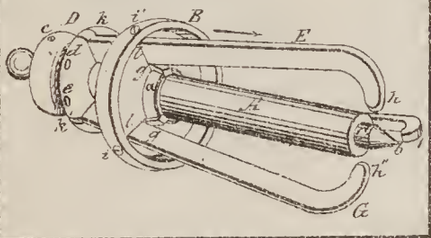
96,651, P. A. ALTMAEIR. SASH-LOCK.



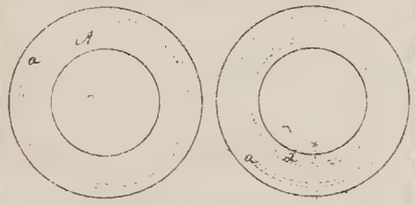
96,652, P. A. ALTMAEIR. FISHING-REEL.



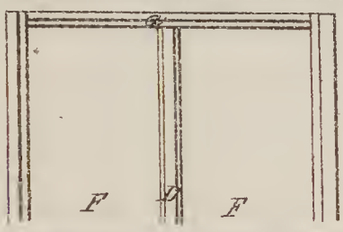
96,653, WILLISTON I. ALVORD.
CENTRING-TOOL.



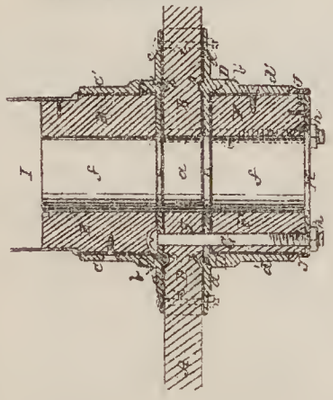
96,654, A. C. ANDREWS.
INDIA-RUBBER PACKING.



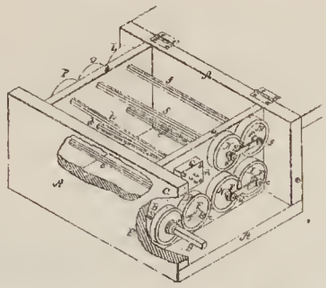
96,655, R. B. ANDREWS.
COMPOSITION-PANEL FOR DOORS.



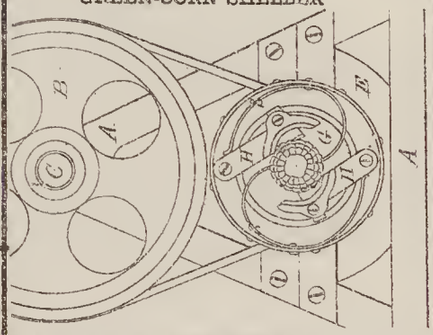
96,656, SIMEON ATHA.
CARRIAGE-WHEELS.



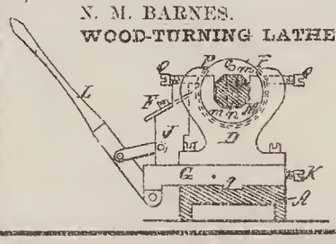
96,657, ALBERT M. BACON.
MOTIVE-POWER.



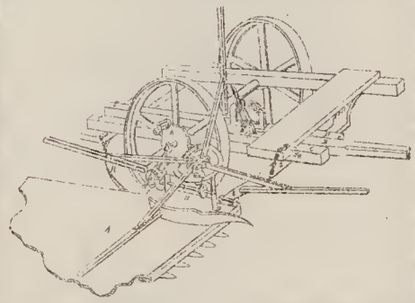
96,658, VOLNEY BARKER
GREEN-CORN SHELLER



96,659, A. T. BARNES.
N. M. BARNES.
WOOD-TURNING LATHE.

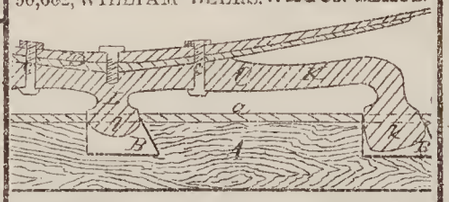


96,660, SAMUEL D. BATES. HARVESTERS.

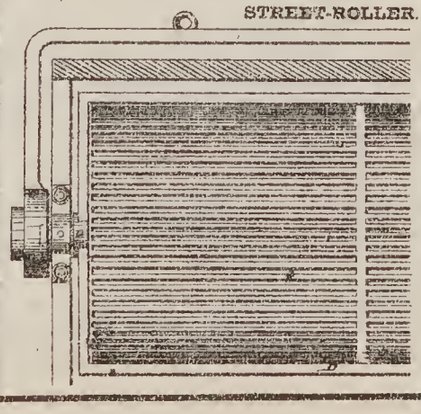


96,661, FR. BECK.
PROCESS FOR COLORING MUSLIN, PAPER, &c.

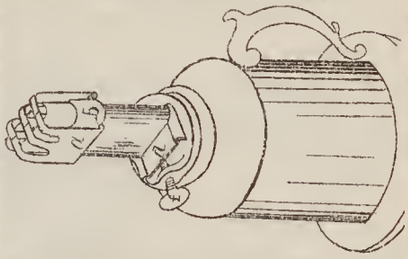
96,662, WILLIAM BEERS. WAGON-SEATS.



96,663, M. J. BENDALL. CALORIC STREET-ROLLER.

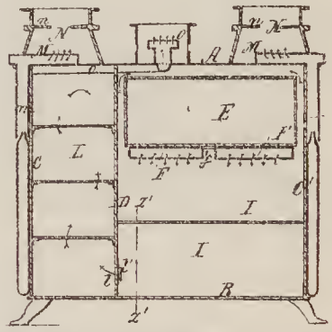


96,664, NEWTON BENEDICT. LAMP.

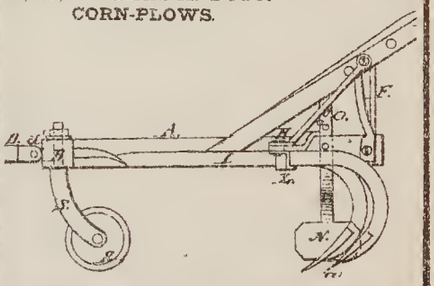


96,665, A. BENNETT.
CORSET-SPRINGS.

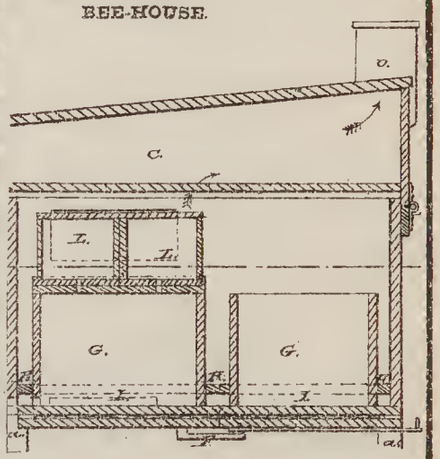
96,666, A. L. BOGART. GAS-RANGE.



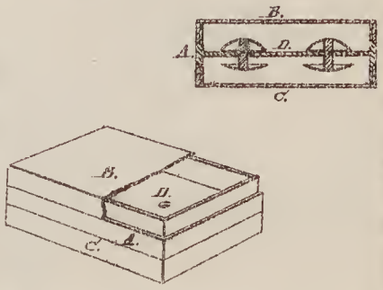
96,667, WILLIAM H. BOTT.
CORN-PLOWS.



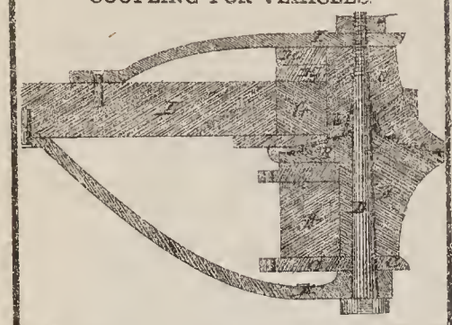
96,668, D. BURBANK.
BEE-HOUSE.



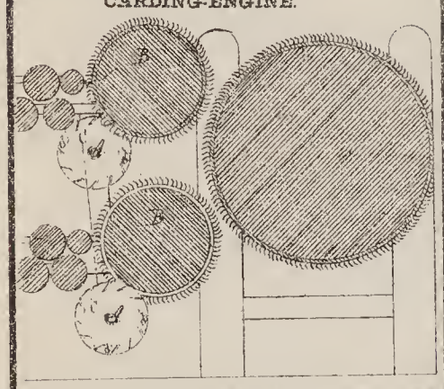
96,669, LEVI L. BURDON.
JEWELRY-BOX.



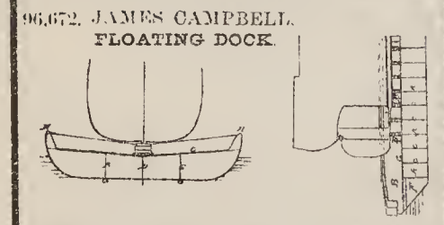
96,670, UPSON BUSHNELL.
COUPLING FOR VEHICLES.



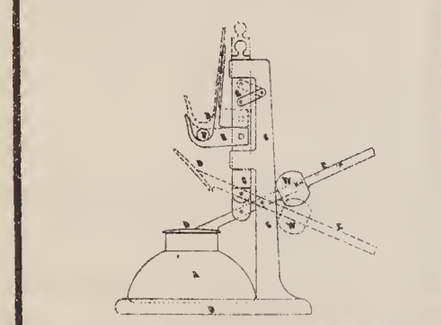
96,671, JOHN BUTTERWORTH.
JAMES BUTTERWORTH.
CARDING-ENGINE.



96,672, JAMES CAMPBELL.
FLOATING DOCK.

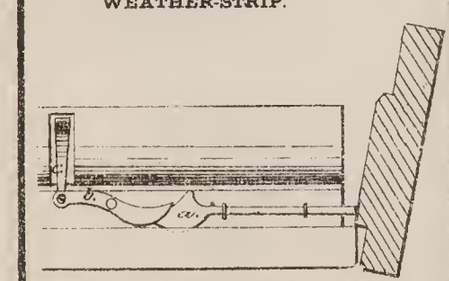


96,673, W. E. CARLILE. INKSTANDS.

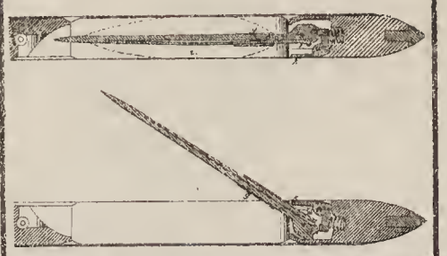


96,674, EDWARD COLSON. SAW-TEETH

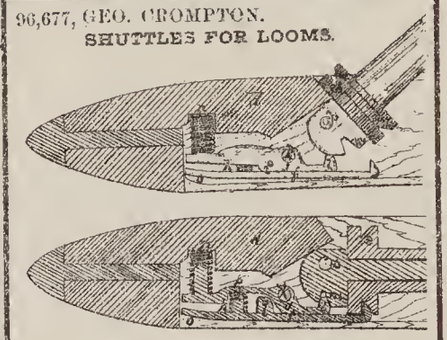
96,675, GEORGE W. CRETORS
ENOS HOOVER.
WEATHER-STRIP.



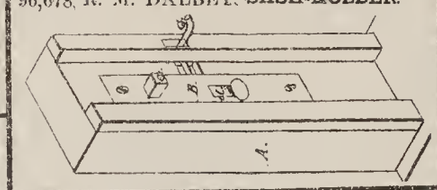
96,676, GEO. CROMPTON.
SHUTTLES FOR LOOMS



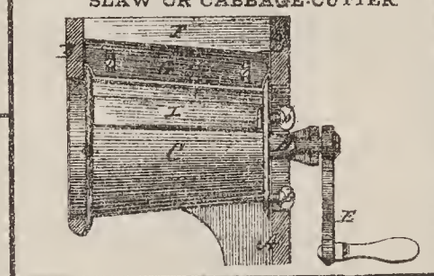
96,677, GEO. CROMPTON.
SHUTTLES FOR LOOMS.



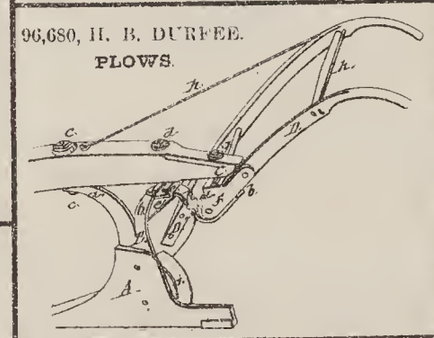
96,678, R. M. DALBEY. SASH-HOLDER.



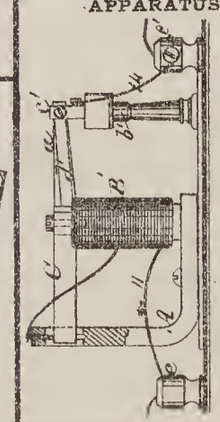
96,679, DANIEL F. DIETRICH.
SLAW OR CABBAGE-CUTTER.



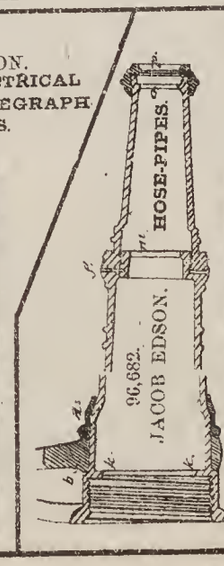
96,680, H. B. DURFEE.
PLOWS.



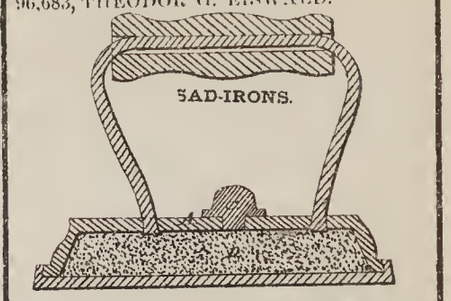
96,681,
THOMAS A. EDISON.
AUTOMATIC ELECTRICAL SWITCH FOR TELEGRAPH APPARATUS.



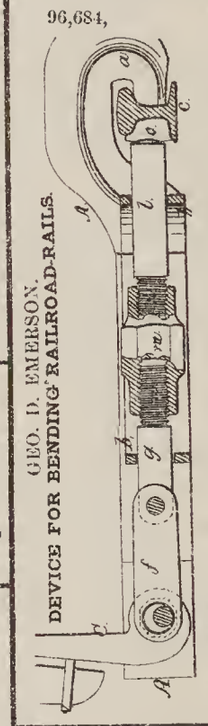
96,682,
JACOB EDSON.
HOSE-PIPES.



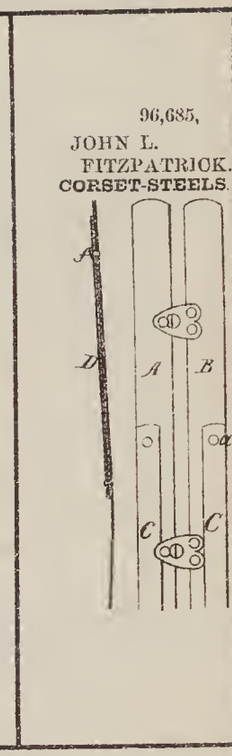
96,683, THEODOR G. EISWALD.
SAD-IRONS.



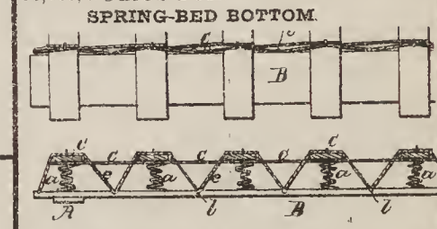
96,684,
GEO. D. EMERSON.
DEVICE FOR BENDING RAILROAD-RAILS.



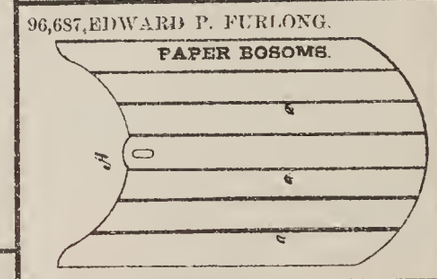
96,685,
JOHN L. FITZPATRICK.
CORSET-STEELS.



96,686, JULIUS FOX.
SPRING-BED BOTTOM.

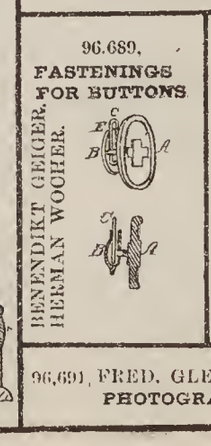


96,687, EDWARD P. FURLONG.
PAPER BOSOMS.

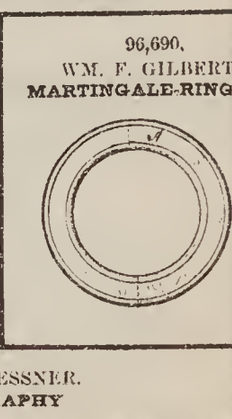


96,688, GILMAN B. GARLAND.
COMPOSITION FOR MANUFACTURE OF SCHOOL-SLATES

96,689,
BENEDIKT GEIGER.
HERMAN WOCHER.
FASTENINGS FOR BUTTONS.

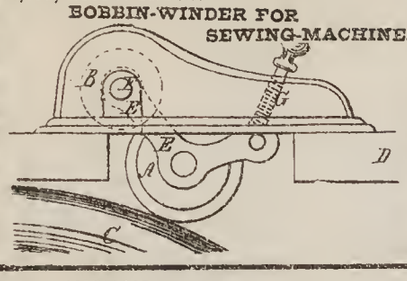


96,690,
WM. F. GILBERT.
MARTINGALE-RING.

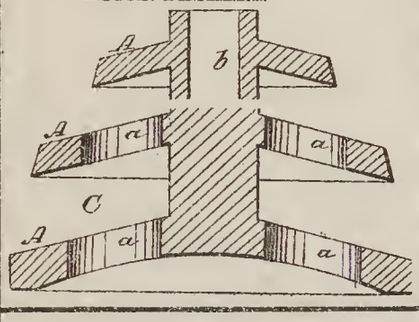


96,691, FRED. GLESSNER.
PHOTOGRAPHY

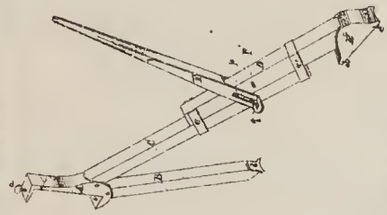
96,692, THOS. HALL.
BOBBIN-WINDER FOR SEWING-MACHINE.



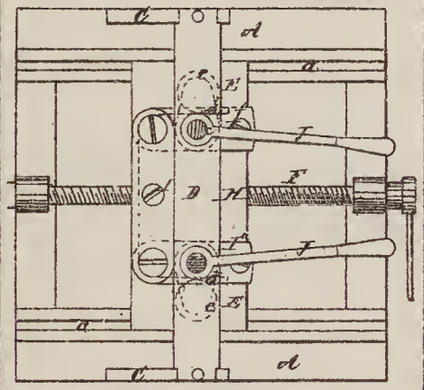
96,693, MILTON A. HAMILTON.
CHURN-DASHERS.



96,694, JESSE HAMME.
PUSHING-JACK FOR RAILROADS.

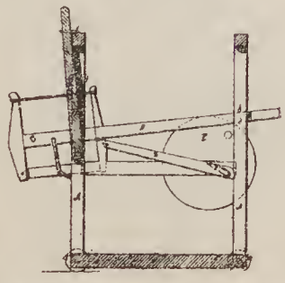


96,695, GEORGE HAVELL.
MACHINES FOR BENDING BAG-FRAMES.

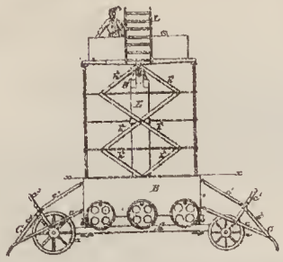


96,696, CHARLES HEDGES.
CHARLES S. STRAYER.
WASHING-MACHINE.

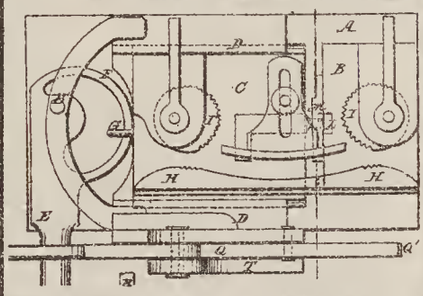
96,697. NOAH F. HERSH.
SAWING-MACHINES



96,698, JOHN HEUERMANN.
FIRE-ESCAPE.

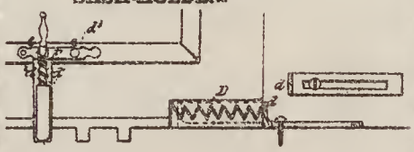


96,699, S. D. HICKS.
UPSET, PUNCH, SHEARS, AND SAW-GUMMING DEVICE.

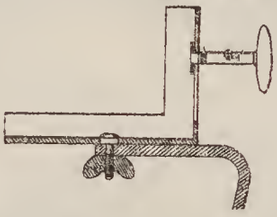


96,700, LEONARD D. HOWARD.
TOOL FOR OPENING BOXES.

96,701, JOSHUA HOWLAND.
SASH-HOLDER.

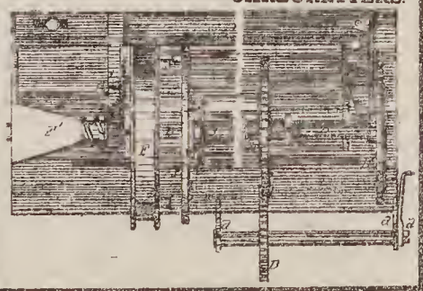


96,702, G. P. JOHNSON. BOOK-HOLDERS.

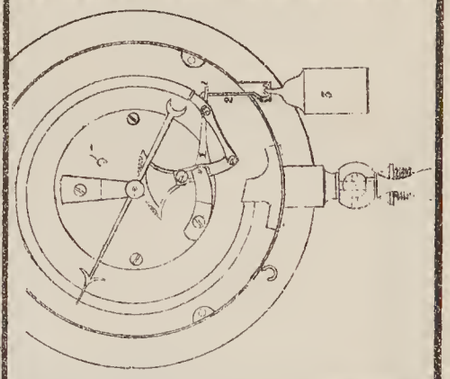


96,703, EDWD. P. JONES.
DETACHING HORSES FROM CARRIAGES.

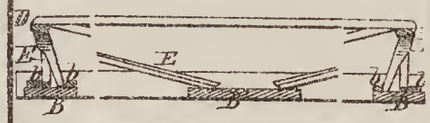
96,704, PATRICK KELLY.
MACHINE FOR SUPPLYING AIR TO CARBURETTERS.



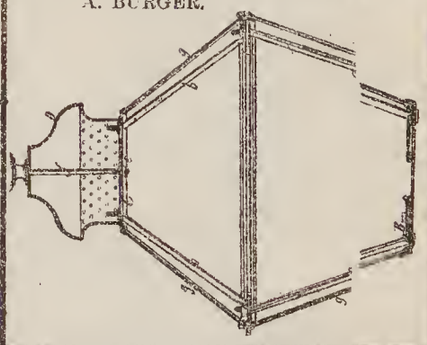
96,705, H. J. H. KING.
PRESSURE-GAUGES.



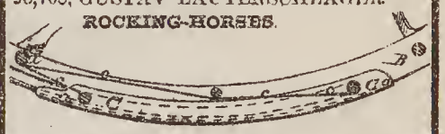
96,706, PETER W. KNISKERN.
SPRING-BED BOTTOM.



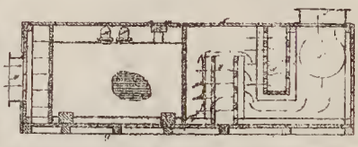
96,707. J. H. KRAMER. STREET-LAMP.
A. BURGER.



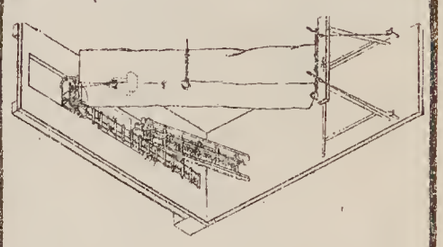
96,708, GUSTAV LAUTENSCHLAGER.
ROCKING-HORSES.



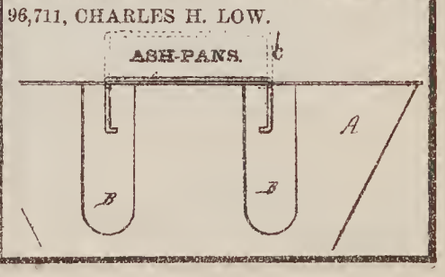
96,709, WM. A. LIGHTHALL
APPARATUS FOR WARMING AND COOLING APARTMENTS.



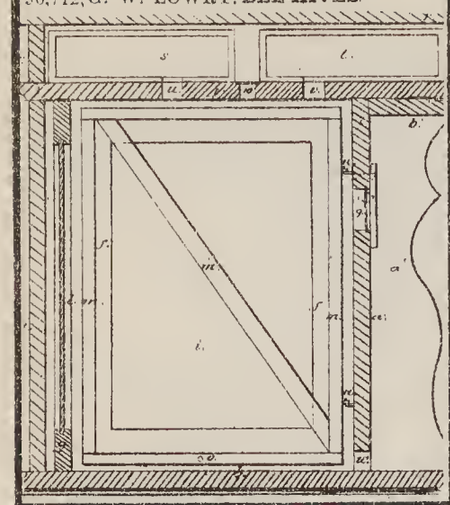
96,710, ALBERT LOTZ. FIRE-LADDER.



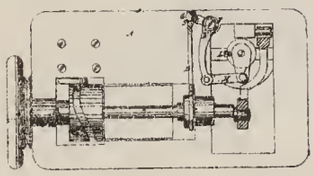
96,711, CHARLES H. LOW.
ASH-PANS.



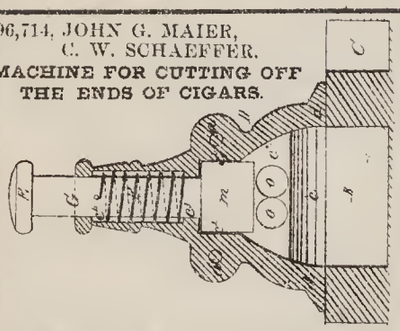
96,712, G. W. LOWRY, BEE-HIVES.



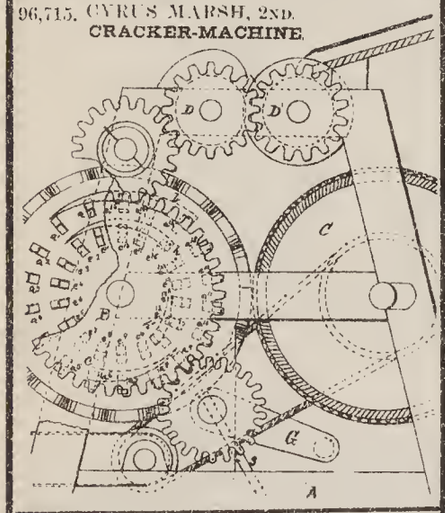
96,713, LUCIUS LYON.
SEWING-MACHINE.



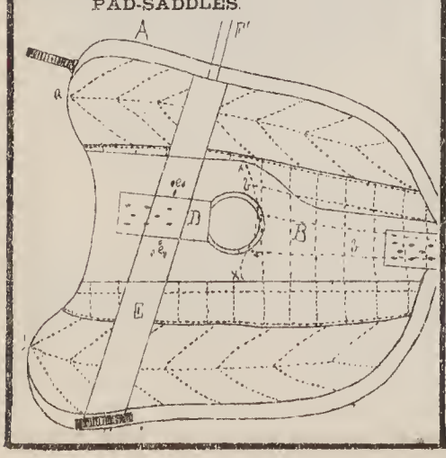
96,714, JOHN G. MAIER,
C. W. SCHAEFFER.
MACHINE FOR CUTTING OFF THE ENDS OF CIGARS.



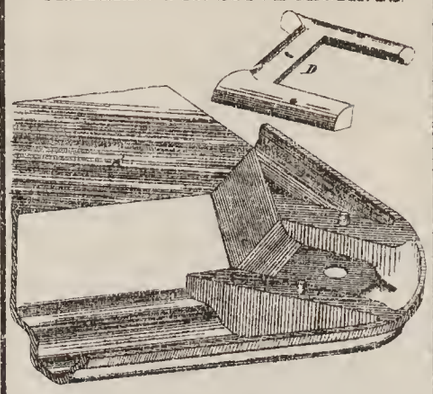
96,715, CYRUS MARSH, 2ND.
CRACKER-MACHINE.



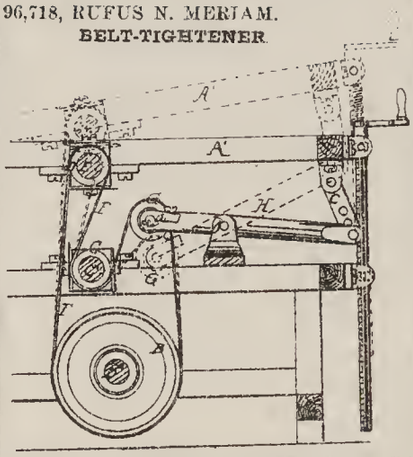
96,716, ROBERT McCLARY.
PAD-SADDLES.



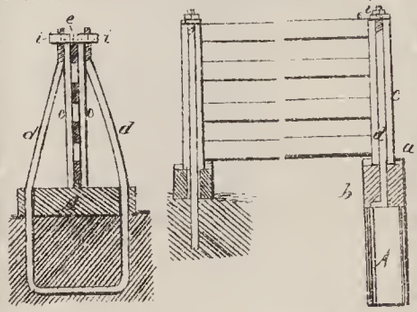
96,717, BERNARD H. MENKE.
PATTERNS FOR STOVE-CASTINGS.



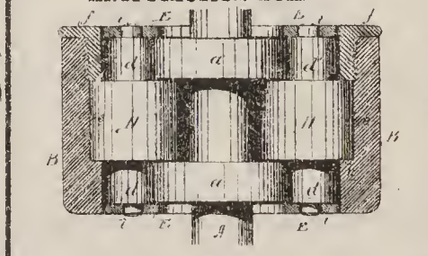
96,718, RUFUS N. MERIAM.
BELT-TIGHTENER.



96,719, CYRUS MILNER, FENCE

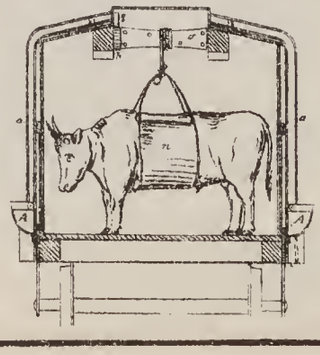


96,720, JOSEPH L. PARRY
ANTI-FRICTION BOX.

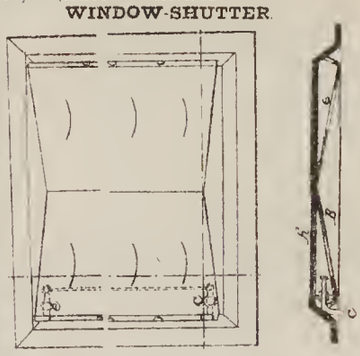


96,721 C. C. PARSONS
PROCESS FOR PURIFYING PYROLIGNEOUS AND ACETIC ACIDS

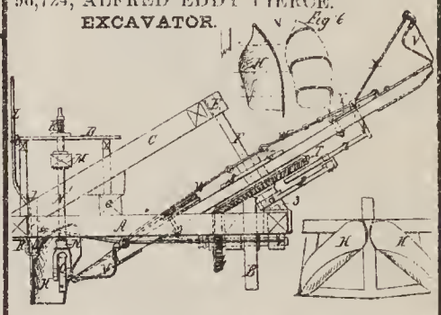
96,722, EDWD. PAYNE.
J. D. CLEGHORN.
RAILWAY CATTLE-CAR.



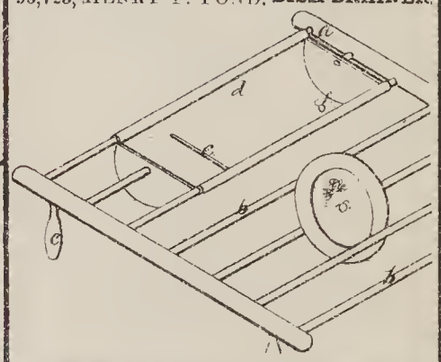
96,723, ELIAB PERKINS
WINDOW-SHUTTER.



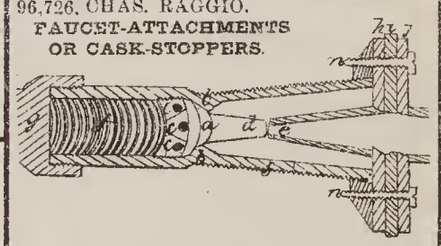
96,724, ALFRED EDDY PIERCE.
EXCAVATOR.



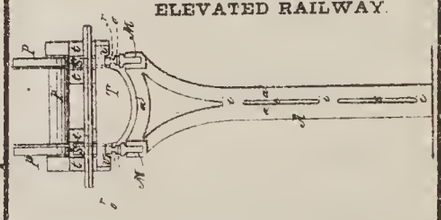
96,725, HENRY F. POND, DISH-DRAINER.



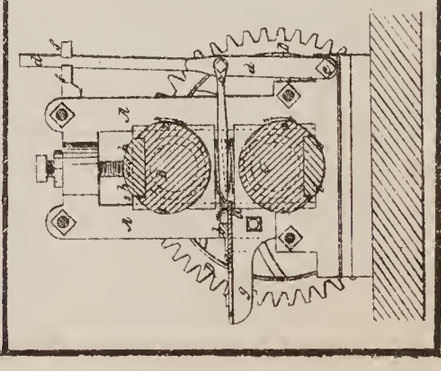
96,726, CHAS. RAGGIO.
FAUCET-ATTACHMENTS OR CASK-STOPPERS.



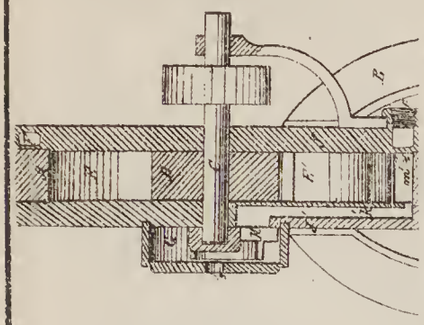
96,727, WM. H. RAND.
ELEVATED RAILWAY.



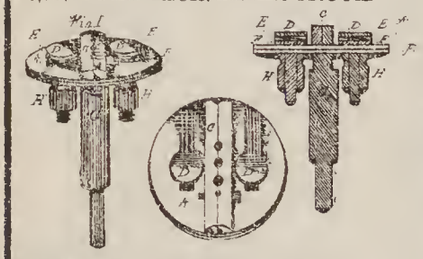
96,728, ASA R. REYNOLDS.
MACHINE FOR ROLLING PLANE-IRONS



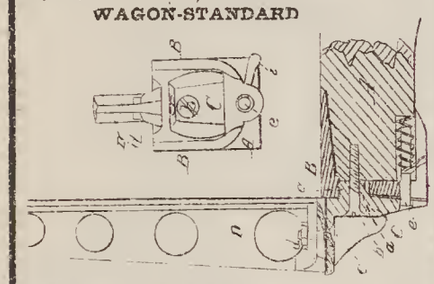
96,729. FRANK RHIND.
ROTARY STEAM-ENGINES.



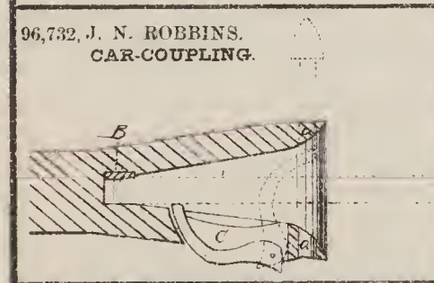
96,730 JOHN RICH. LATHE-CHUCK.



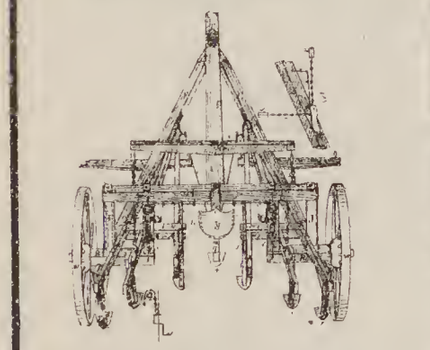
96,731, GEO. RICHARDS.
WAGON-STANDARD



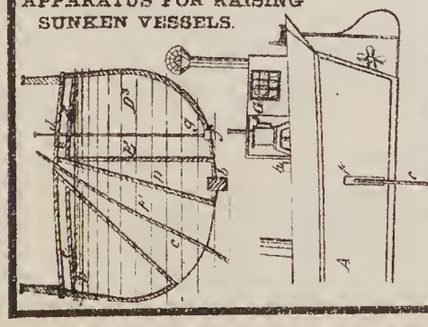
96,732, J. N. ROBBINS.
CAR-COUPLING.



96,733. R. B. ROBBINS.
SULKY-CULTIVATOR.



96,734, W. D. ROBINSON.
APPARATUS FOR RAISING SUNKEN VESSELS.



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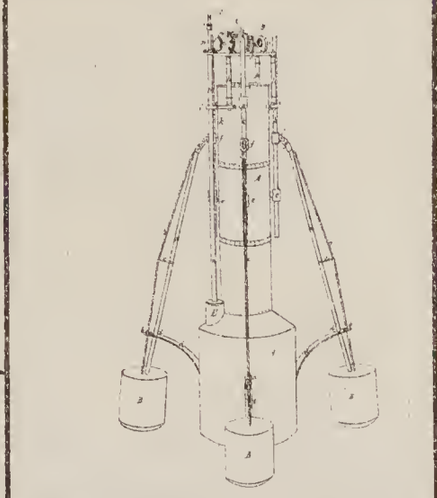
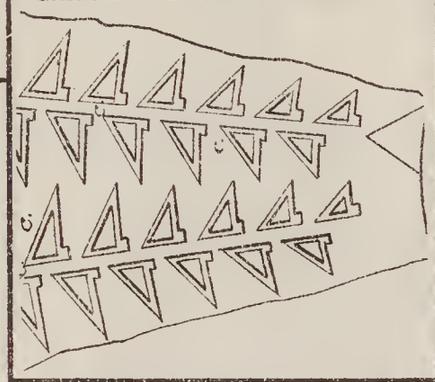
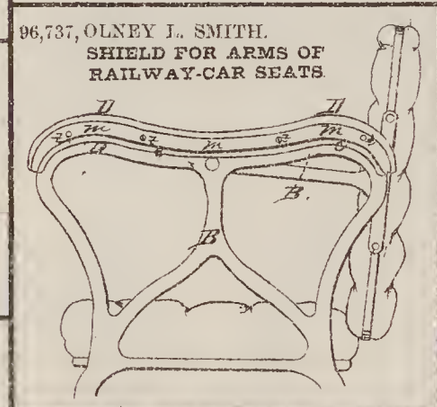
SUBMARINE ROCK-DRILLING MACHINE



96,736, HENRY SHAW.
GRINDING OR HULLING-PLATES FOR GRINDING OR HULLING- MILLS.

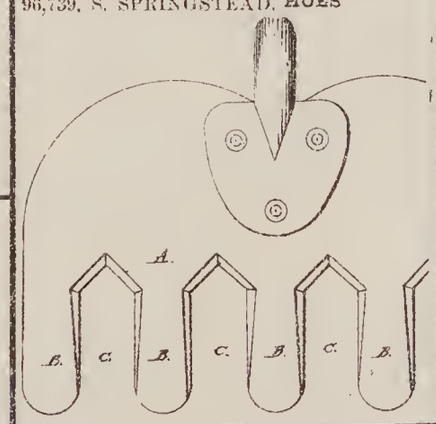


96,737, OLNEY L. SMITH.
SHIELD FOR ARMS OF RAILWAY-CAR SEATS.

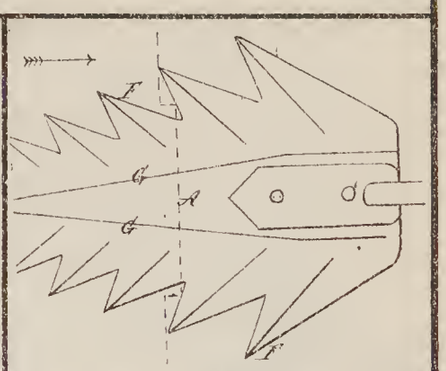


96,738. JAS. SPENCE.
COMPOSITION FOR PREVENTING RADIATION AND CONDUCTION OF HEAT.

96,739, S. SPRINGSTEAD. HOES



96,740, S. SPRINGSTEAD.
WEEDING-IMPLEMENT.



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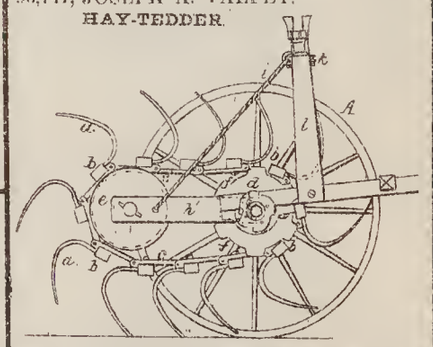
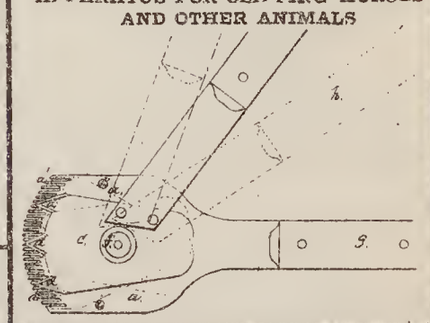
HAY-TEDDER.



96,742, JOHN TIDMARSH.
APPARATUS FOR CLIPPING HORSES AND OTHER ANIMALS



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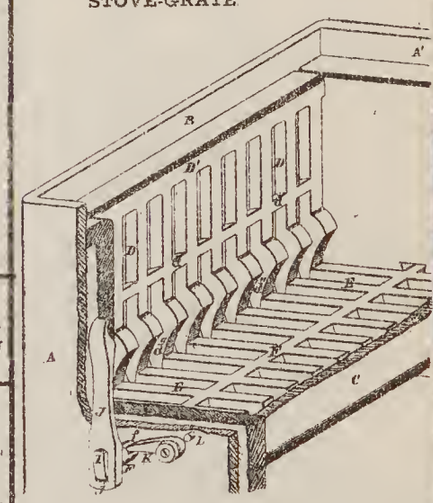
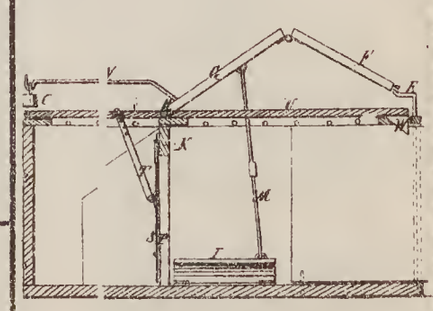
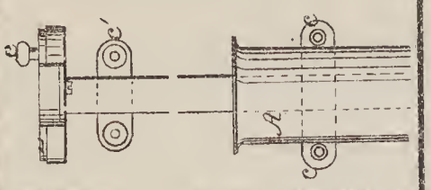
STOVE-GRATE



96,744, J. L. TUSTEN.
ANIMAL-TRAP.



96,745, JAMES TWAMLEY.
WHIP-SOCKETS.



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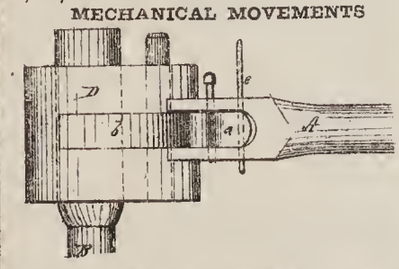
MECHANICAL MOVEMENTS



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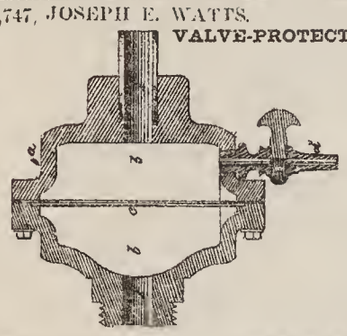
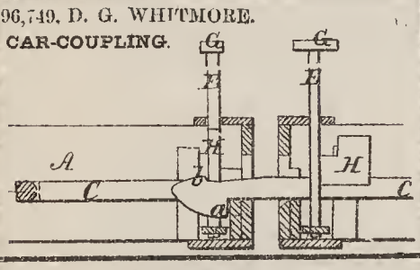
VALVE-PROTECTOR.



96,748, WILLIAM N. WEEDEN.
PENCIL-SHARPENERS.

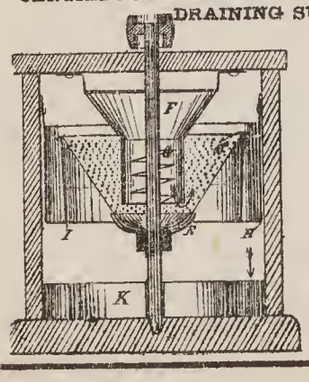
96,749, D. G. WHITMORE.
CAR-COUPLING.



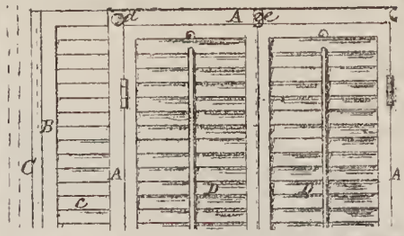
96,750, GEO. WIDDICOMB.
BED-BOTTOM.

96,751, JACOB WIDMER.
FIRE-ARMS.

96,752, HYMAN AUGUSTINE WILDER
CENTRIFUGAL MACHINE FOR DRAINING SUGAR.



96,753, BENJN. J. WILLIAMS.
WINDOW-SCREEN AND BLIND.



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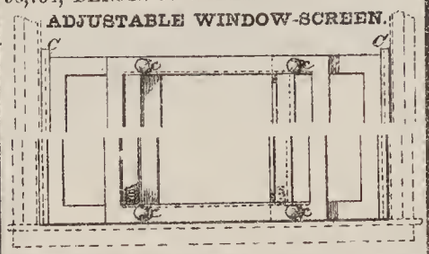
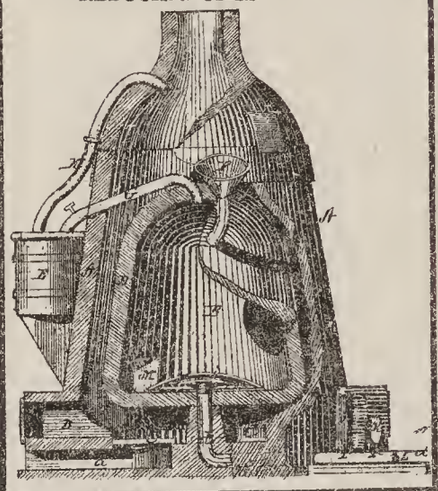
ADJUSTABLE WINDOW-SCREEN.



96,755, CHARLES D. WILLIAMS.
W. H. NOBLES.
REDUCING ORES.



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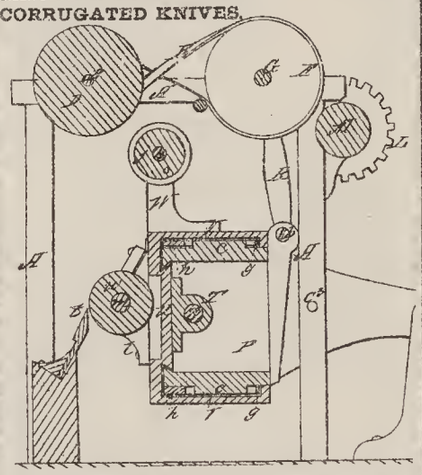
MACHINE FOR GRINDING CORRUGATED KNIVES.



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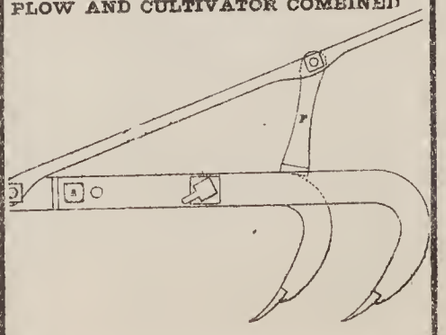
JOSEPH A. PHILLIPS.
PLOW AND CULTIVATOR COMBINED



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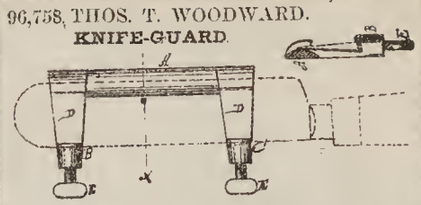
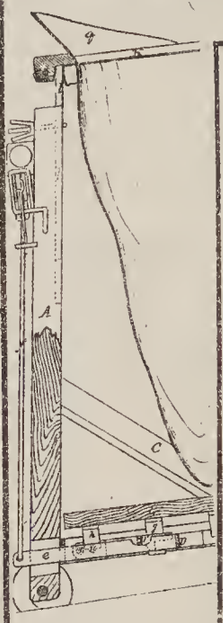
KNIFE-GUARD.



96,759, WILLIAM ZIMMERMAN.
COMBINED BAG-HOLDER AND SCALES.



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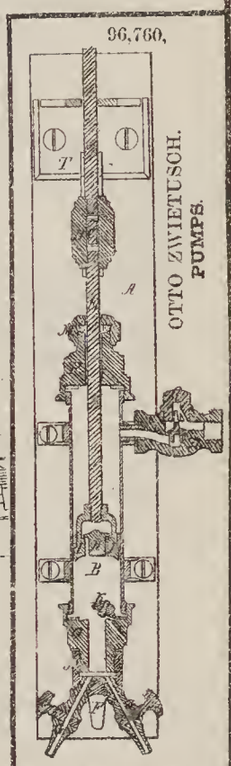
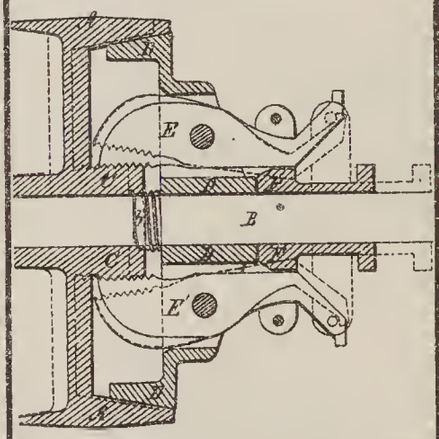
PUMPS.



3,713, ANDREW B. CLEMONS.
FRICTION-CLUTCH PULLEY.



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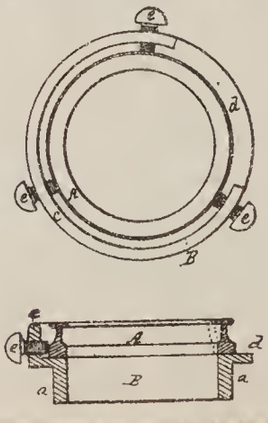
WM. F. DRAPER.
RINGS FOR SPINNING-MACHINES.



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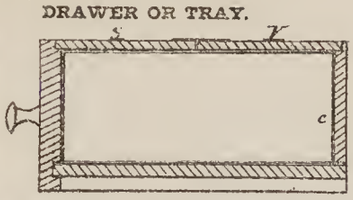
DRAWER OR TRAY.



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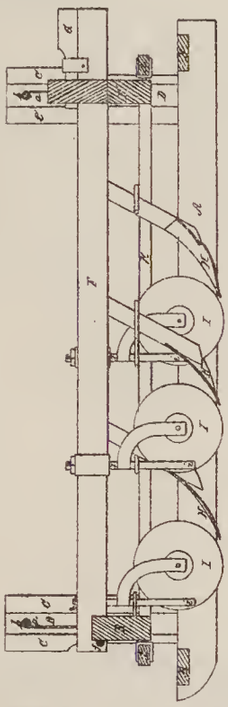
GANG-PLOWS.



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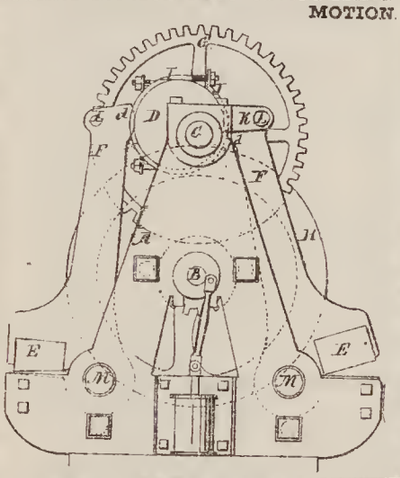
MECHANISM FOR CONVERTING ROTARY MOTION INTO OSCILLATING MOTION.



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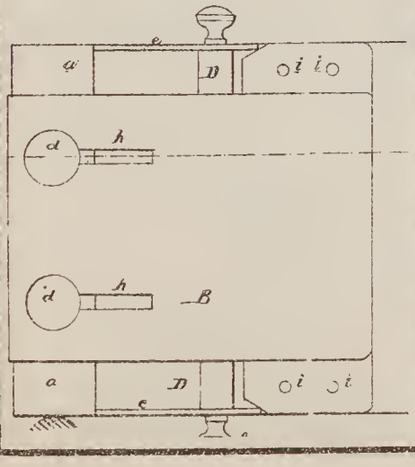
TOOL FOR MANUFACTURING PAPER BAGS.



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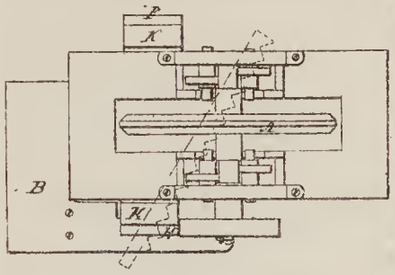
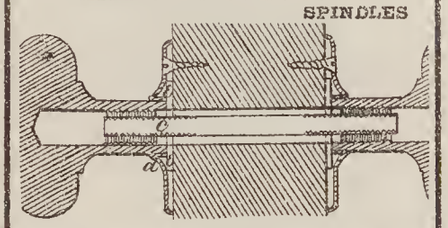
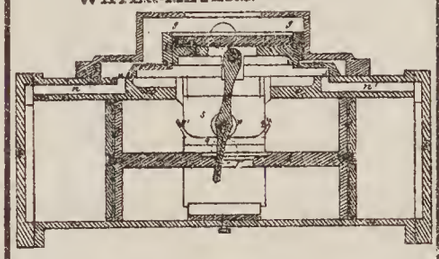
HARVESTER-CUTTER GRINDER.



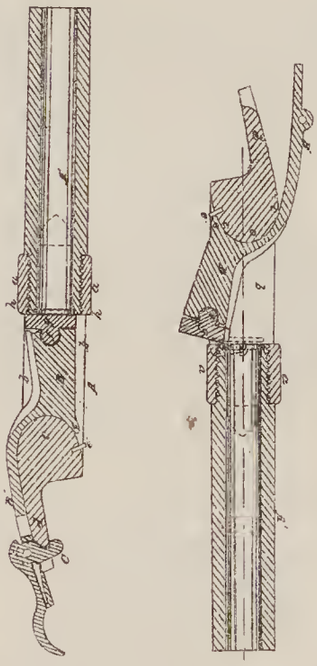
3,720, EMERY PARKER.
ATTACHING KNOBS TO THEIR SPINDLES



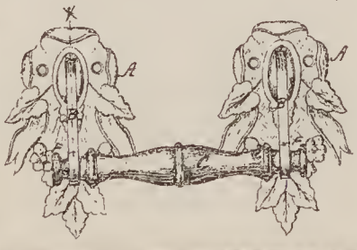
3,721, THOMAS PARSONS.
WATER-METERS.



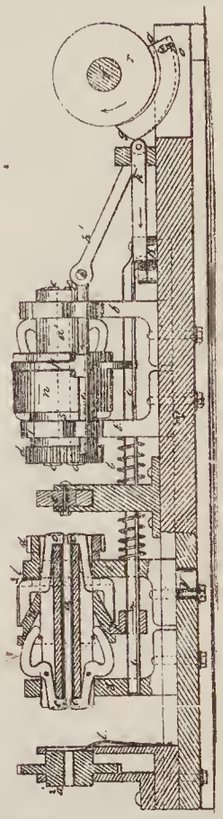
3,722, B. S. ROBERTS,
BREECH-LOADING FIRE-ARMS.



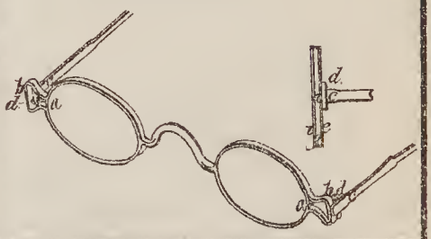
3,723, SARGENT & CO.,
LIFTING-HANDLE FOR COFFINS, &c.



3,724, EMIL T. HERTLE.
RICHARD THOMPSON.
MACHINERY FOR MAKING WIRE HEDDLES.



3,725, ALBERT LORSCH.
SPECTACLE-FRAMES.



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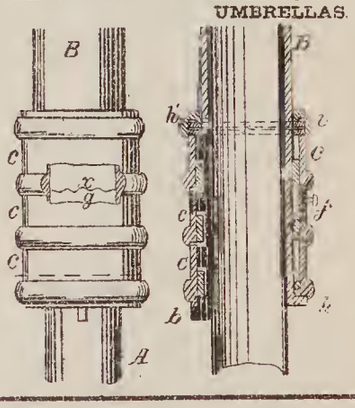
JOHN WRIGHT.
JOSEPH WRIGHT.
JOHN NOBLE.
JACOB R. FILSON.
SAFETY-ATTACHMENTS FOR UMBRELLAS.



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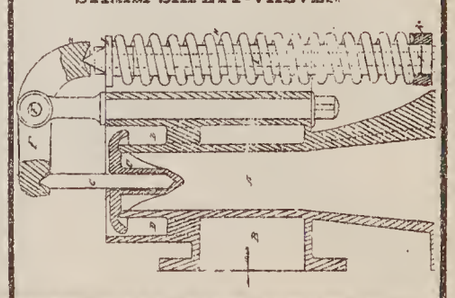
STEAM SAFETY-VALVES.



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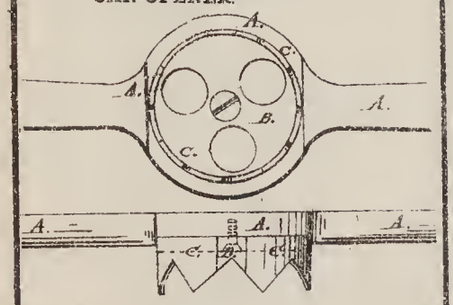
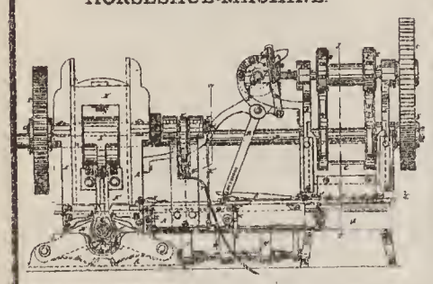
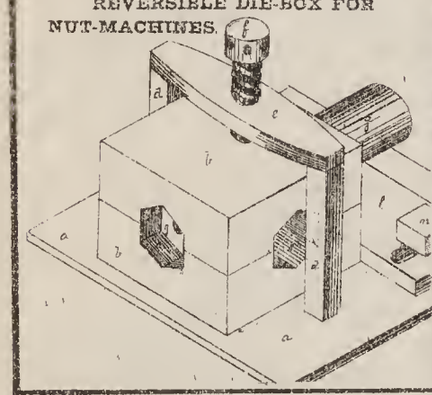
96,761, H. C. ALEXANDER.
CAN-OPENER.



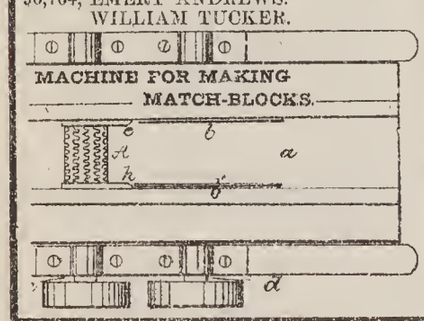
96,762, F. D. ALTHAUSE.
JOHN F. ALLEN.
HORSESHOE-MACHINE.



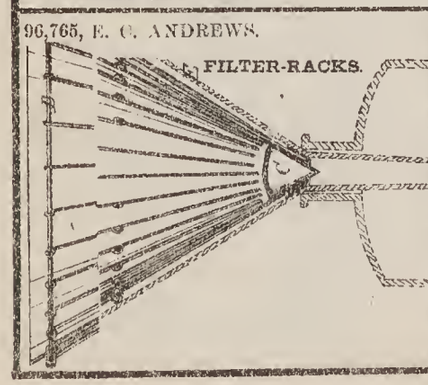
96,763, WESLEY ANDERSON.
REVERSIBLE DIE-BOX FOR NUT-MACHINES.



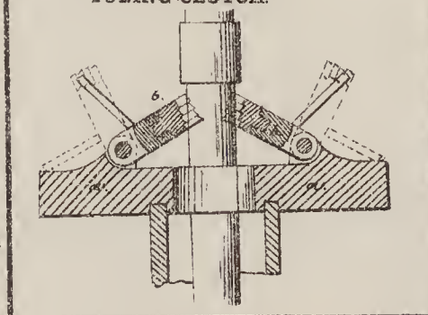
96,764, EMERY ANDREWS.
WILLIAM TUCKER.
MACHINE FOR MAKING MATCH-BLOCKS.



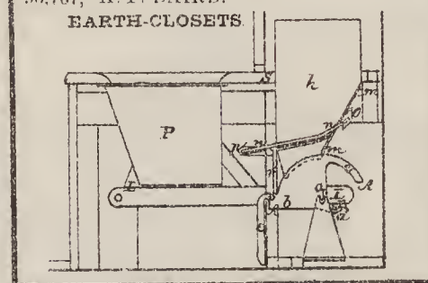
96,765, E. C. ANDREWS.
FILTER-RACKS.



96,766, JOEL N. ANGIER.
TUBING-CLUTCH.

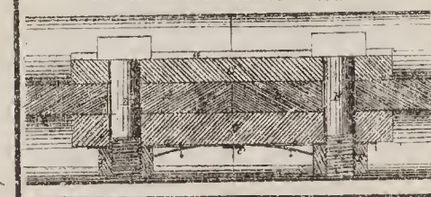


96,767, A. F. BAIRD.
EARTH-CLOSETS.



96,768 SUSPENDED

96,769, JASON T. BARTLETT.
RAILWAY-RAIL SPLICE.



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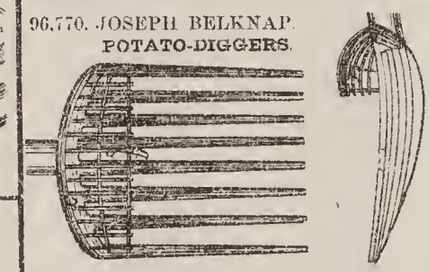
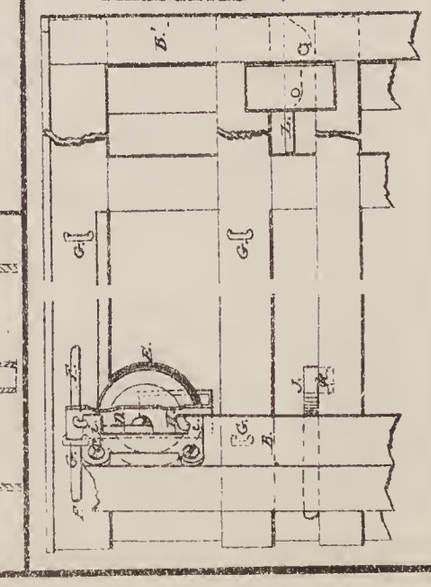
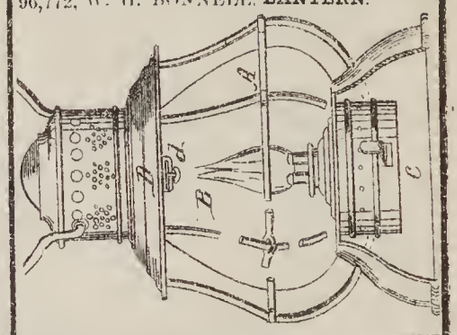
POTATO-DIGGERS.



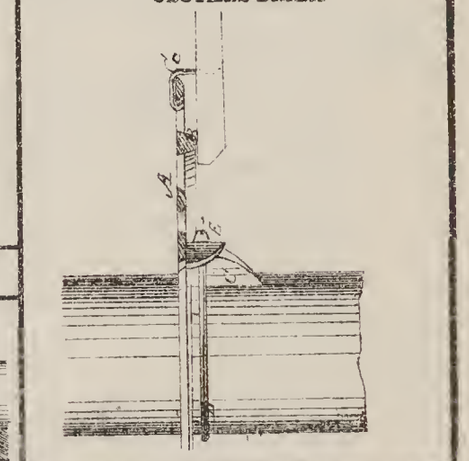
96,771, GEORGE F. BISSELL.
FARM-GATES.



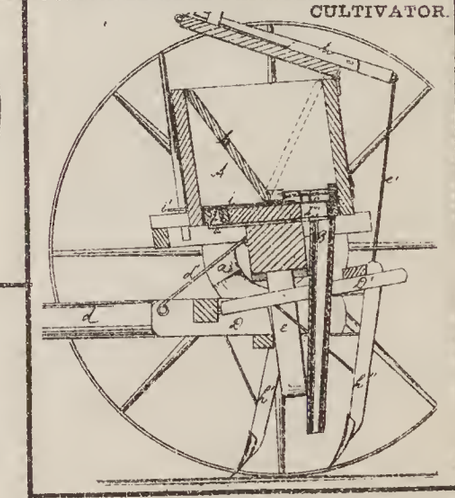
96,772, W. H. BONNELL. LANTERN.



96,773, W. C. BURNHAM.
STOVE-PIPE SHELF AND CLOTHES-DRIER.



96,774, GEORGE W. CARPENDER.
COMBINED SEED-PLANTER AND CULTIVATOR.



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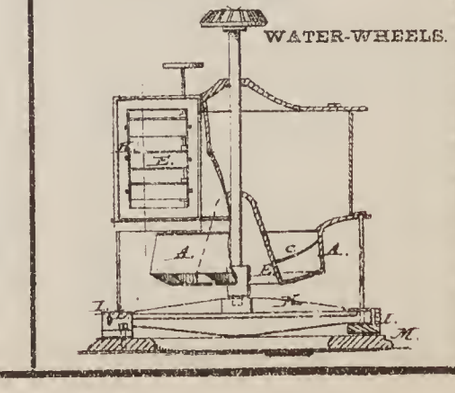
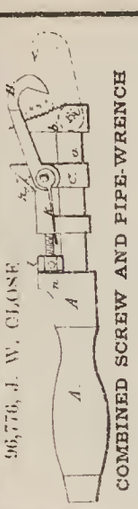
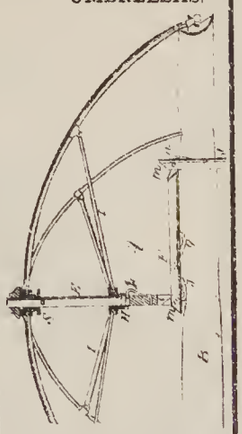
WATER-WHEELS.

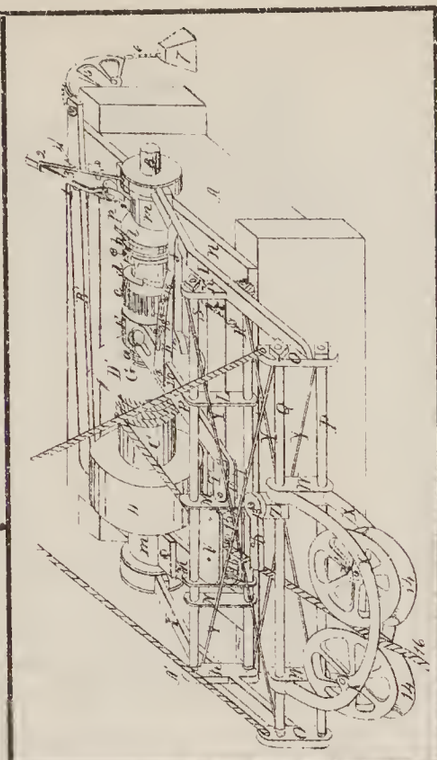


96,776, J. W. CLOSE. COMBINED SCREW AND PIPE-WRENCH

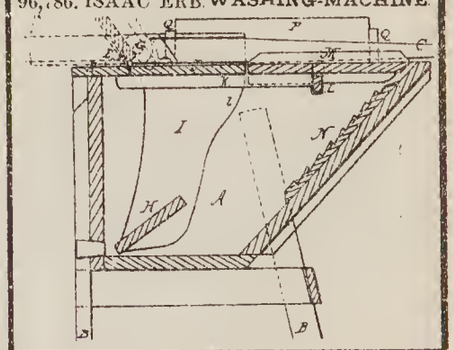


96,777. MAGGIE CLYDE. UMBRELLAS.

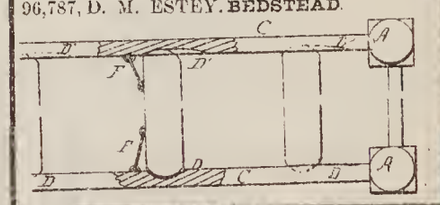




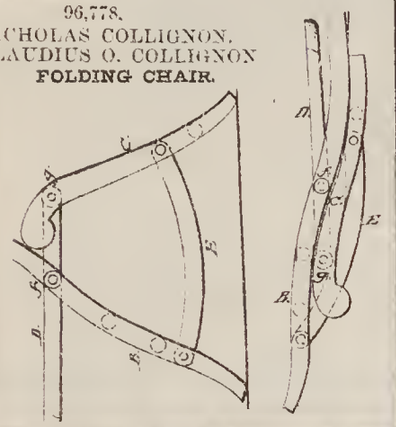
96,786. ISAAC ERB. WASHING-MACHINE.



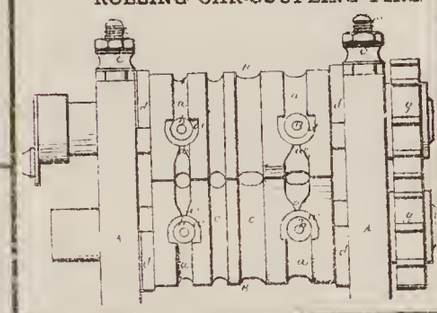
96,787, D. M. ESTEY. BEDSTEAD.



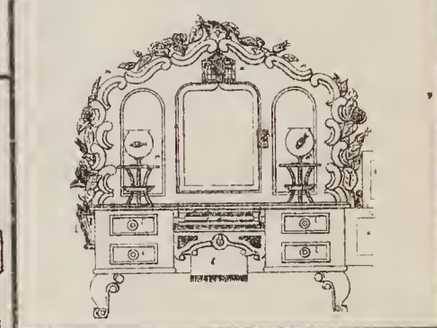
96,778. NICHOLAS COLLIGNON. CLAUDIUS O. COLLIGNON. FOLDING CHAIR.



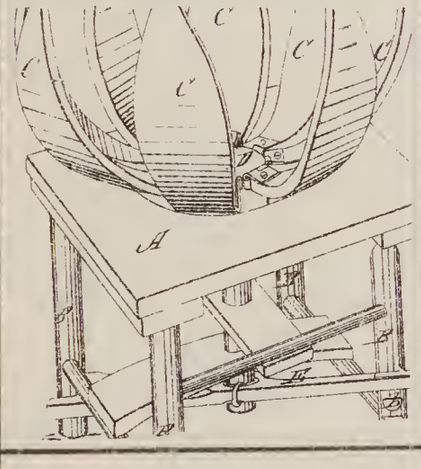
96,782, FREDERICK W. DAVIDSON. ROLLING CAR-COUPLING PINS.



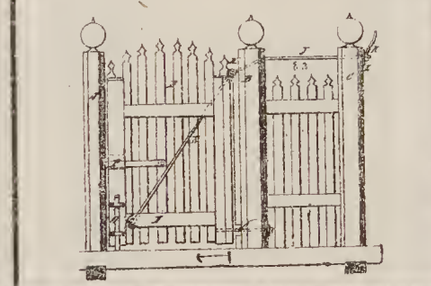
96,788. A. J. FORBES. CABINET FOR LADIES.



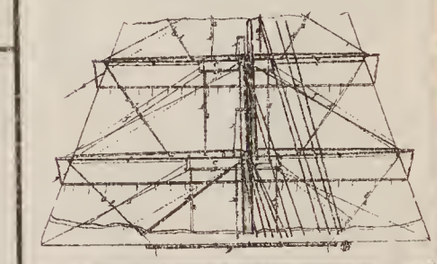
96,779, SOLON COOLEY. APPARATUS FOR TYING FLEECES.



96,783, JOHN R. DAVIS. GATES.

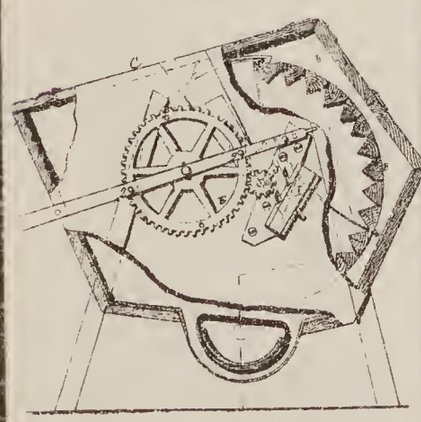


96,789. R. B. FORBES. RIGGING SHIPS.

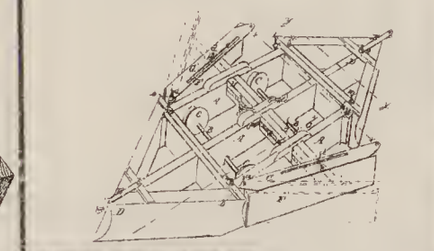


96,790, ALFRED I. FRICK. J. B. LE CLERC. PROCESS FOR REDUCING REBELLIOUS ORES OF THE PRECIOUS METALS

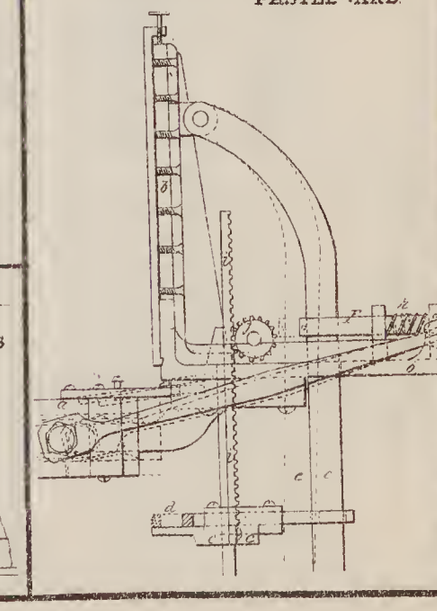
96,780, HERRMANN CRAMER. WASHING-MACHINE.



96,784. AUGUSTUS DAY. TRACK-CLEARING CAR.

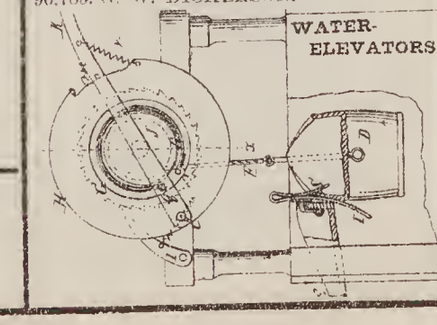


96,791, H. A. GAGE. MACHINES FOR CUTTING PASTEBOARD.

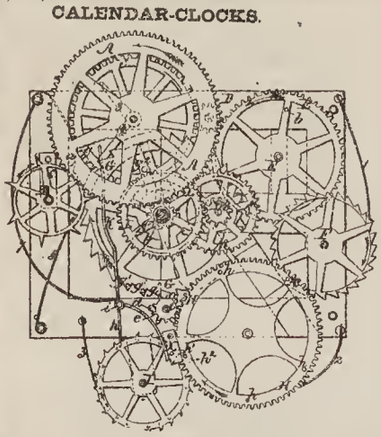


96,781. JOHN DABLE. APPARATUS FOR UNLOADING CARS

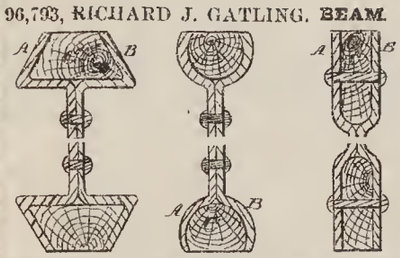
96,785. G. W. DICKERSON. WATER-ELEVATORS



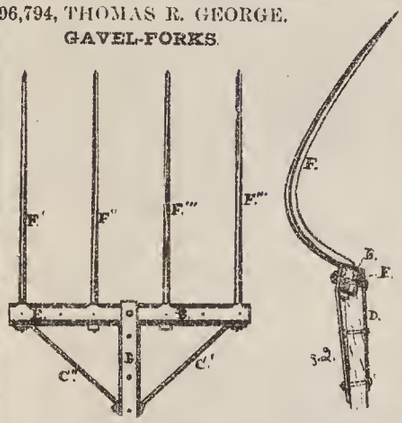
96,792, DANIEL J. GALE.
CALENDAR-CLOCKS.



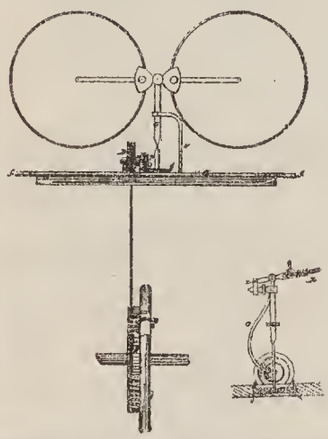
96,793, RICHARD J. GATLING. **BEAM.**



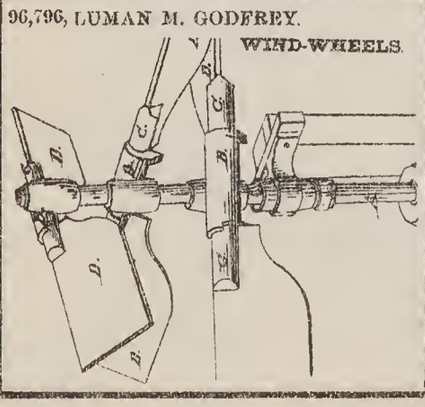
96,794, THOMAS R. GEORGE.
GAVEL-FORKS.



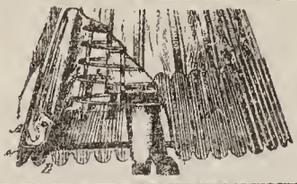
96,795, D. W. GLASSIE.
SEWING-MACHINE FAN.



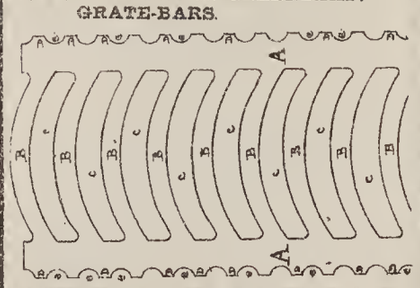
96,796, LUMAN M. GODFREY.
WIND-WHEELS.



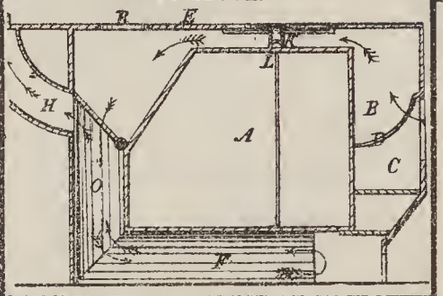
96,797, MRS. A. H. GRATON.
DRESS AND SKIRT-PROTECTORS.



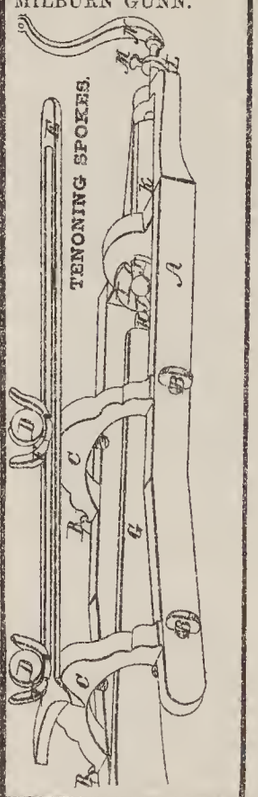
96,798, CLEMENTS A. GREENLEAF.
GRATE-BARS.



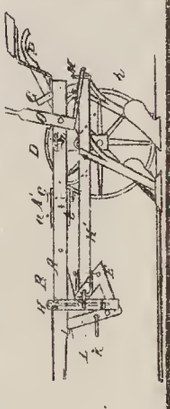
96,799, JAMES GRIMES.
COOKING-STOVE.



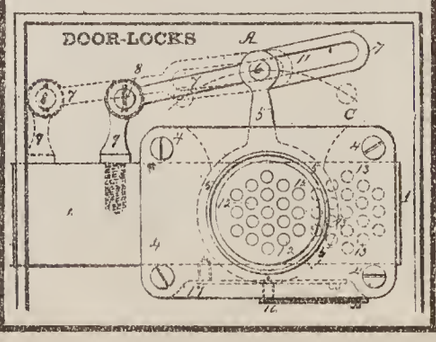
96,800,
MILBURN GUNN.



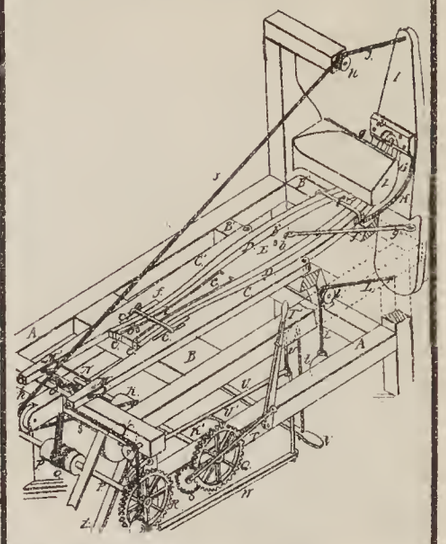
96,801.
A. J. GRUSH.
CORN-CULTIVATORS.



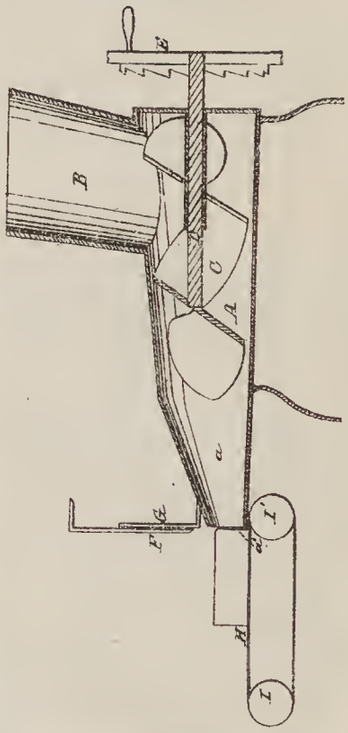
96,802, CHARLES GODFREY GUMPEL.



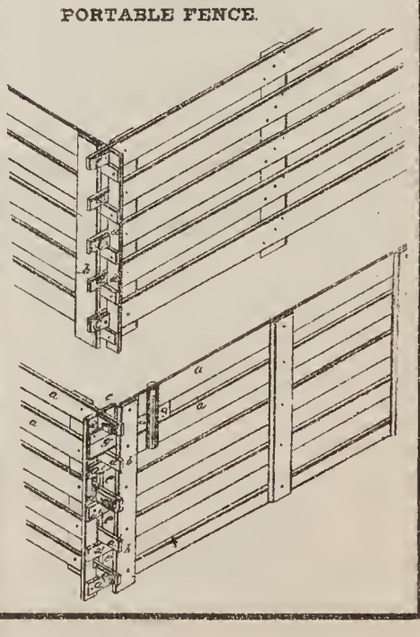
96,803, J. S. HAMLET.
MACHINE FOR BENDING THILLS



96,804, J. E. HAWKINS.
BREAD-MACHINES.



96,805, LEWIS HAZLETT.
S. D. HAZLETT.
PORTABLE FENCE.



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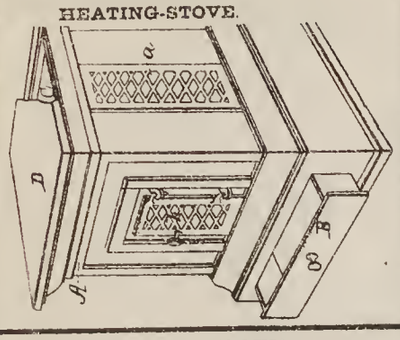
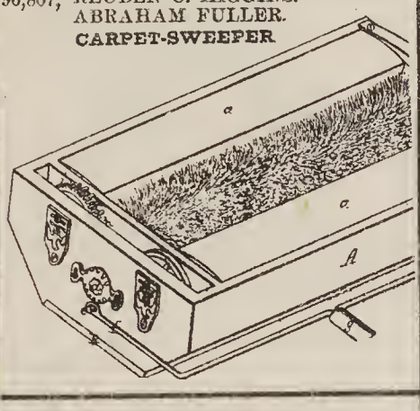
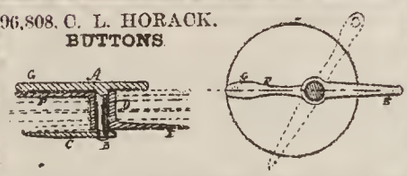
JOSEPH SCHAUM.
HEATING-STOVE.



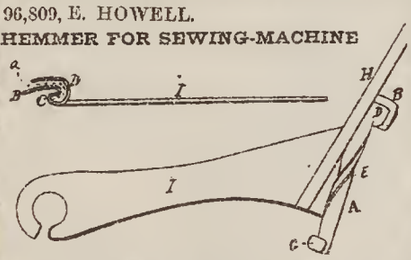
96,807, REUBEN C. HIGGINS.
ABRAHAM FULLER.
CARPET-SWEEPER.



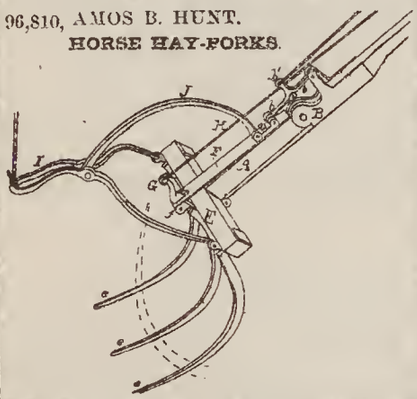
96,808, C. L. HORACK.
BUTTONS.



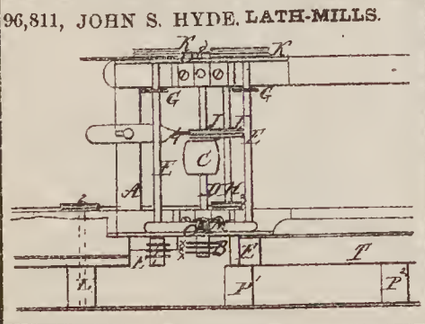
96,809, E. HOWELL.
HEMMER FOR SEWING-MACHINE.



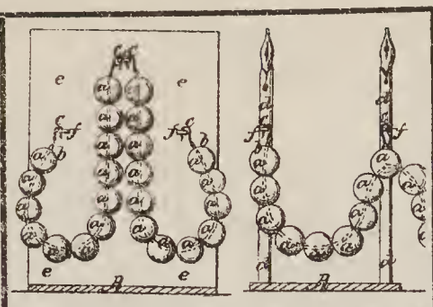
96,810, AMOS B. HUNT.
HORSE HAY-FORKS.



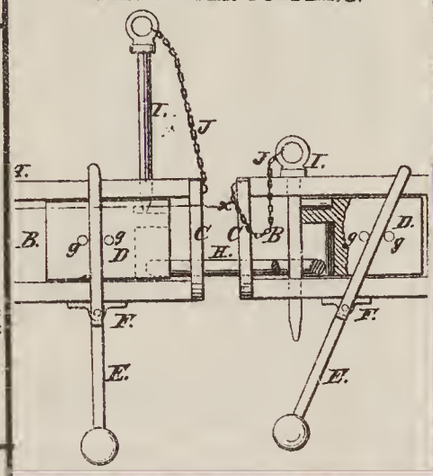
96,811, JOHN S. HYDE. **LATH-MILLS.**



96,812, WERNER ITSCHNER.
APPARATUS FOR PREVENTING HORSES FROM KICKING IN THE STABLE.



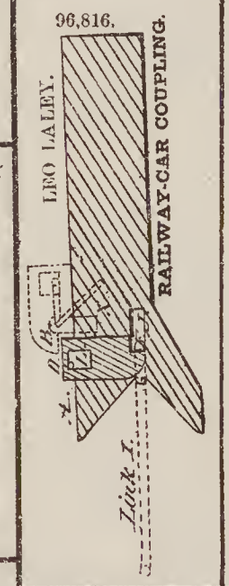
96,813, J. D. KERRISON.
RAILWAY-CAR COUPLING.



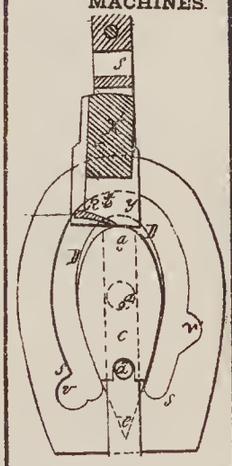
96,814, ANDREW KULL, Jr.
FENCE.

96,815, CHARLES KUTTLER.
MANUFACTURE OF PLASTIC VENEER.

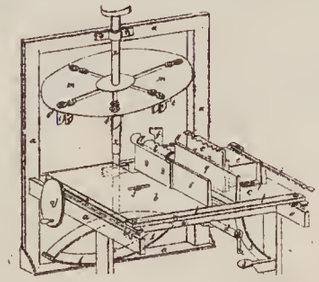
96,816,
LEO LALEY.
RAILWAY-CAR COUPLING.



96,817,
RICHARD C. LAMBART.
HEEL-CUTTING MACHINES.



96,818, W. A. LEWIS.
GEORGE W. BUTLER.
MACHINE FOR CUTTING FELLOES.



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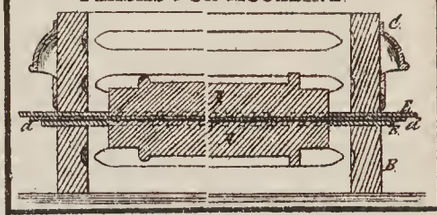
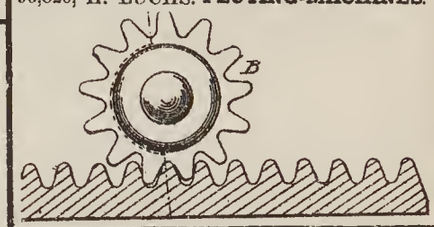
FLASKS FOR MOULDING.



96,820, H. LUCHS. **FLUTING-MACHINES.**



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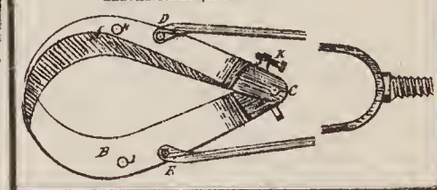
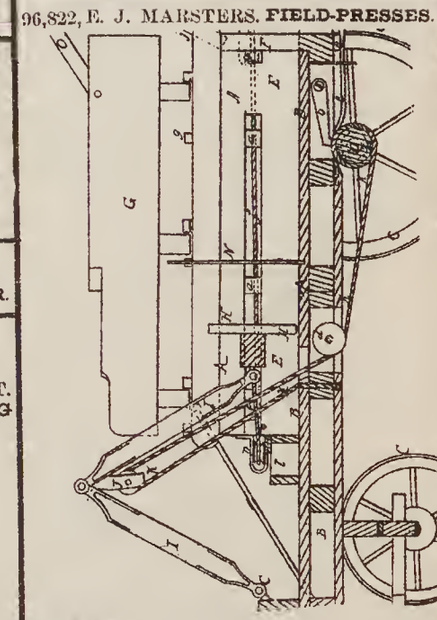
ANIMAL-TRAP.



96,822, E. J. MARSTERS. **FIELD-PRESSES.**



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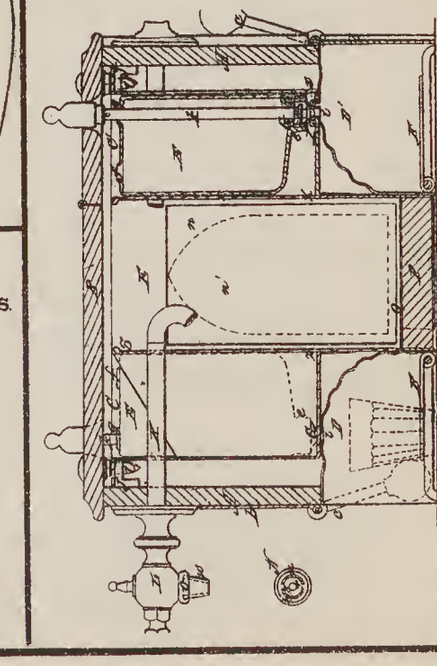
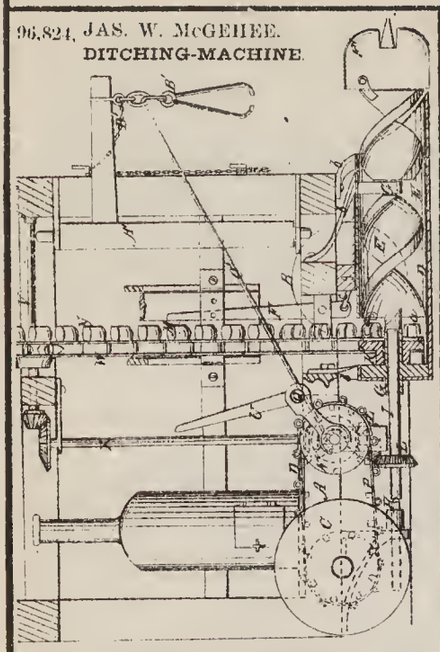
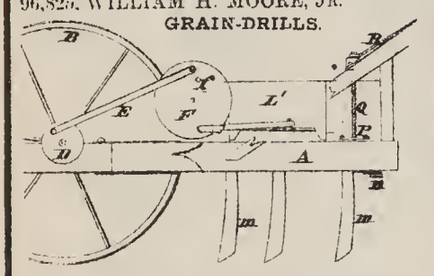
SODA-WATER DRAUGHT-APPARATUS.



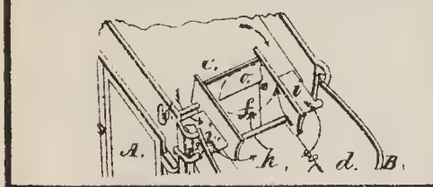
96,824, JAS. W. McGEHEE.
DITCHING-MACHINE.



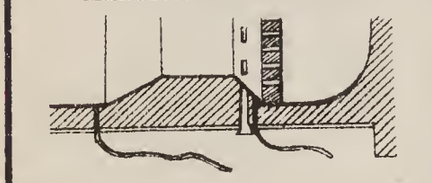
96,825, WILLIAM H. MOORE, Jr.
GRAIN-DRILLS.



96,826, W. N. MOORE, **COOKING-STOVES.**

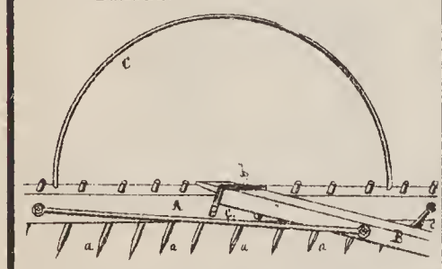


96,827, CHAS. M. NES.
MANUFACTURE OF PIG-IRON.

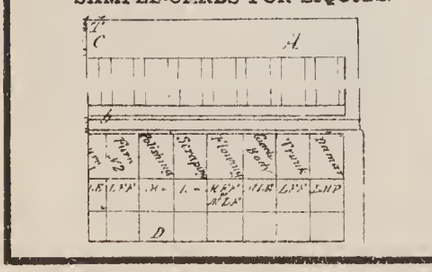


96,828, CONSTANTINE NESSI.
BEVERAGE

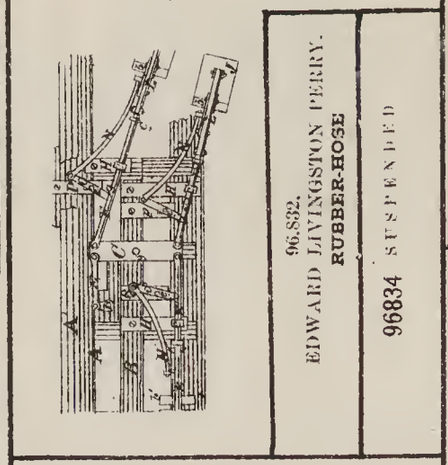
96,829, JOHN W. NEWTON.
DRAGS.



96,830, HENRY NUSTEDT.
SAMPLE-CARDS FOR LIQUIDS.



96,831, AMOS D. OWEN,
JOHN D. SHERMAN.
PROPELLING-APPARATUS FOR VESSELS



96,832,
EDWARD LIVINGSTON PERRY.
RUBBER-HOSE
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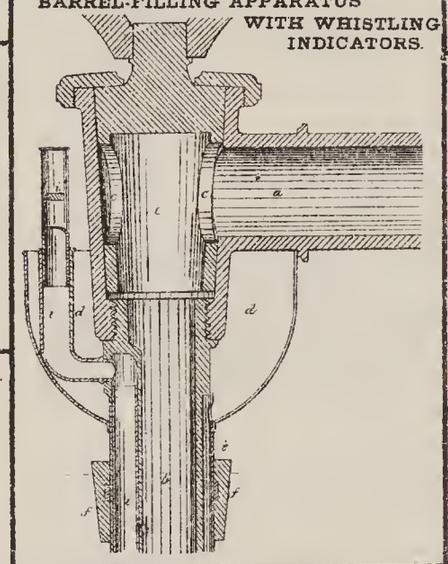
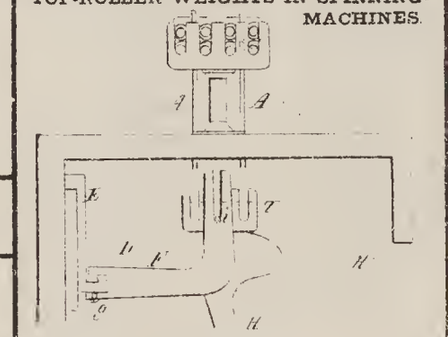
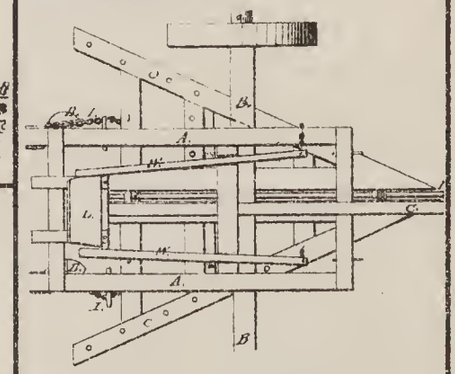
96,833, HIRAM S. PHILLIPS.
BARREL-FILLING APPARATUS WITH WHISTLING INDICATORS.



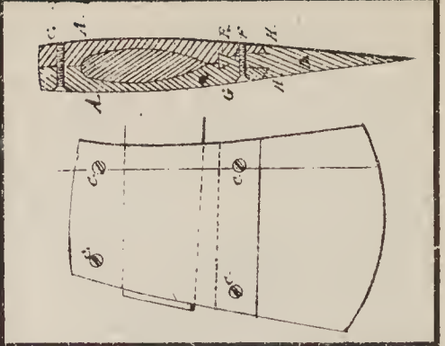
96,835, G. W. PRENTICE
MECHANISM FOR RAISING TOP-ROLLER WEIGHTS IN SPINNING-MACHINES.



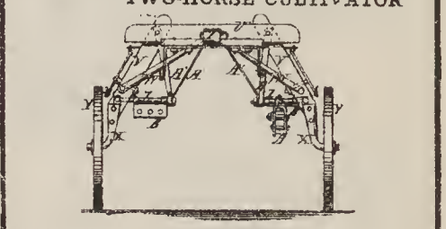
96,836, ELIJAH J. PRESTON.
HARROWS.



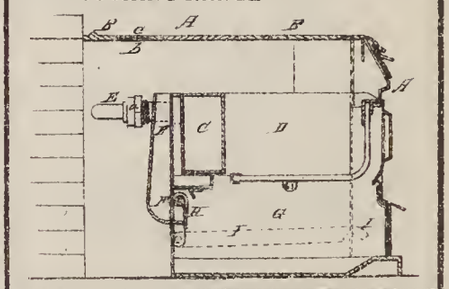
96,837, ERNEST QUAST.
AXES.



96,838, S. G. RAYL.
COMBINED DOUBLE-SHOVEL AND TWO-HORSE CULTIVATOR



96,839, PHILIP ROLLHAUS.
COOKING-RANGE



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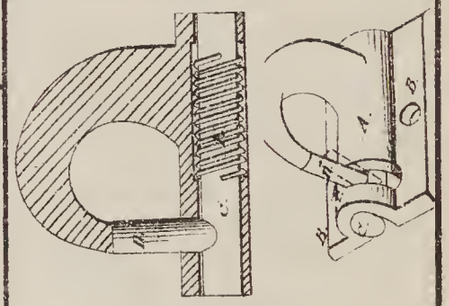
STABLE-HOOK



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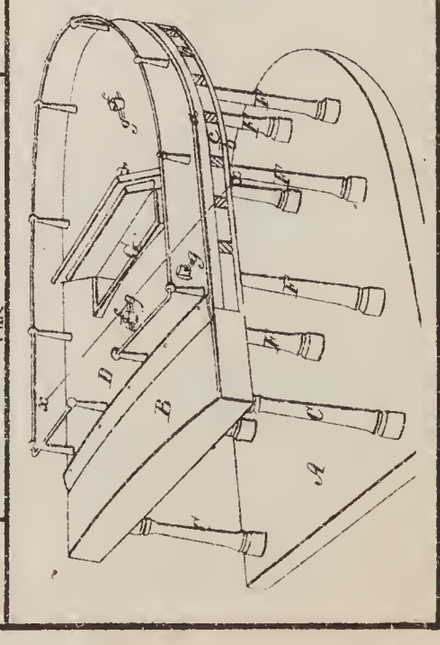
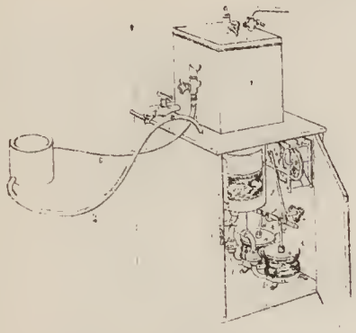
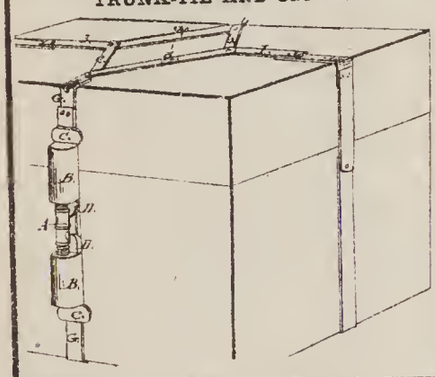
DETACHABLE BUOYANT SHIP'S DECK.



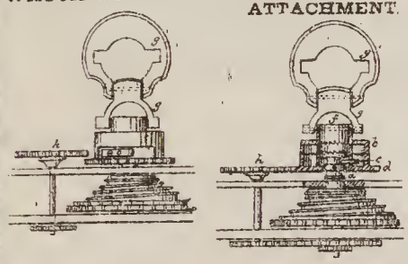
96,842. IRA W. SHALER.
APPARATUS FOR CARBURETTING AIR.



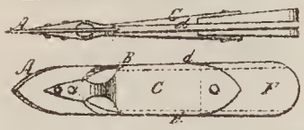
96,843, A. D. SMITH.
TRUNK-TIE AND CLASP.



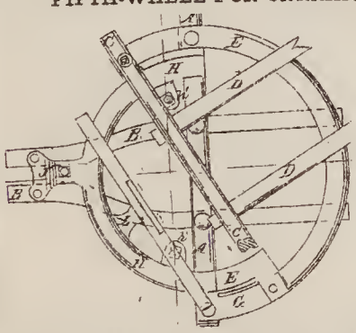
96,844, CHARLES SPIRO.
WATCH-WINDING AND SETTING ATTACHMENT.



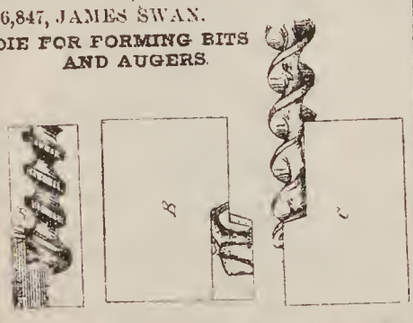
96,845, CHARLES B. STEPHENS.
ENVELOPE-OPENERS.



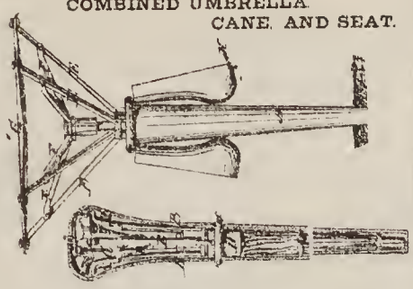
96,846, CLEMENT ST. JAMES.
FIFTH-WHEEL FOR CARRIAGES.



96,847, JAMES SWAN.
DIE FOR FORMING BITS AND AUGERS.



96,848, GILLESPIE SWEENY.
COMBINED UMBRELLA CANE, AND SEAT.



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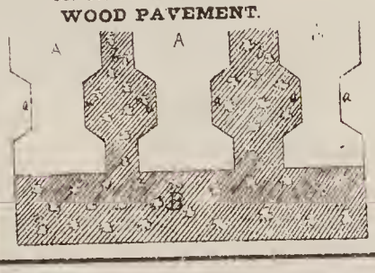
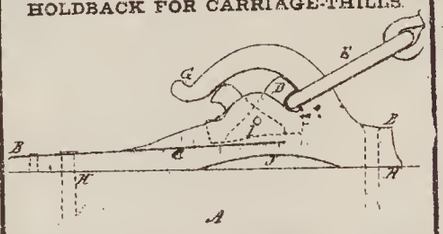
WOOD PAVEMENT.

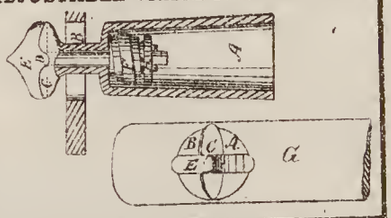


96,850, A. VAN CAMP, M. M. HODGMAN.
CONCRETE FOR PAVEMENTS AND FOR OTHER PURPOSES.

96,851, P. S. VAN WAGNER.
HOLDBACK FOR CARRIAGE-THILLS.



96,852, P. S. VAN WAGNER.
ADJUSTABLE TRACE-FASTENING.



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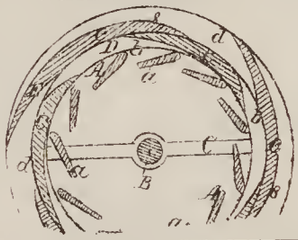
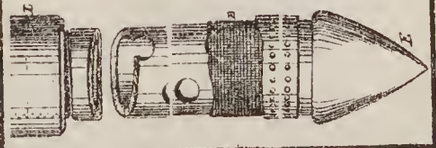
WATER-WHEELS.

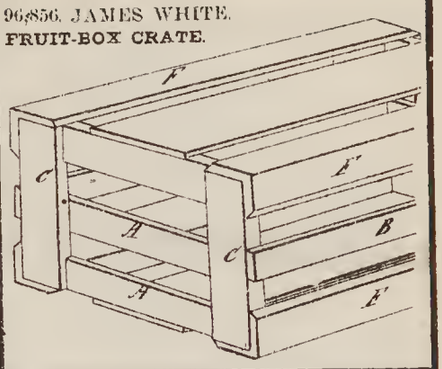


96,854. ASA WATERS. TUBE-WELLS.

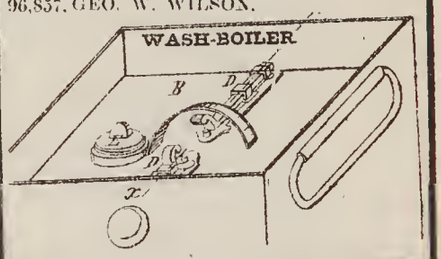


96,855, GEO. WELLHOUSE.
COOKING-STOVE.

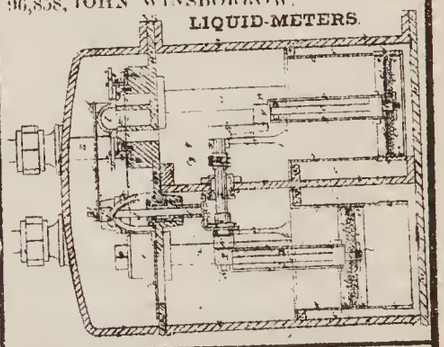
96,856. JAMES WHITE.
FRUIT-BOX CRATE.



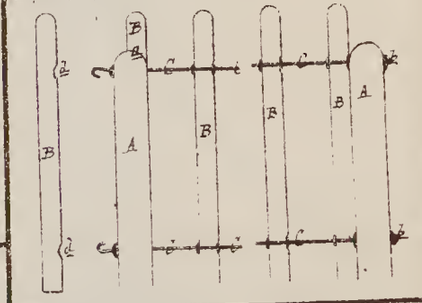
96,857. GEO. W. WILSON.
WASH-BOILER.



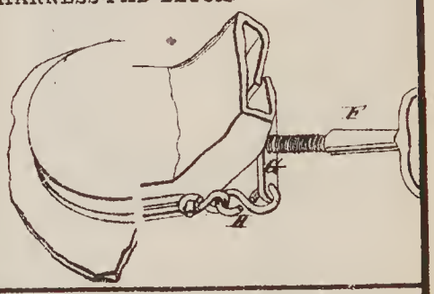
96,858, JOHN WINSBORROW.
LIQUID-METERS.



96,859, STEPHEN A. WOOD. FENCE.

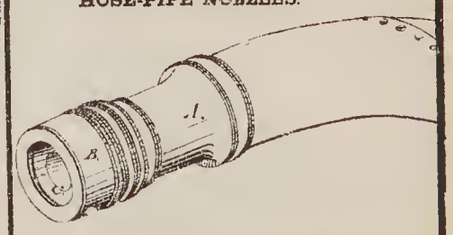


96,860, J. ZIMMER, Jr.
HARNESS-PAD BLOCK.

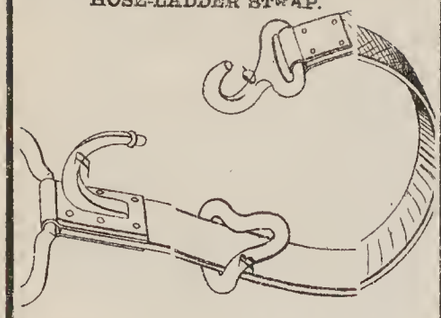


96,861, J. AHEARN. COMPOSITION FOR DESTROYING INSECTS ON FLOWERS, PLANTS, AND BUSHES.

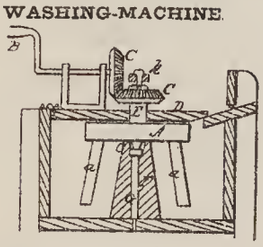
96,862, ALBERT F. ALLEN
HOSE-PIPE NOZZLES.



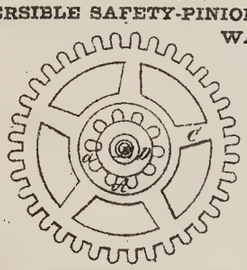
96,863, ALBERT F. ALLEN.
HOSE-LADDER STRAP.



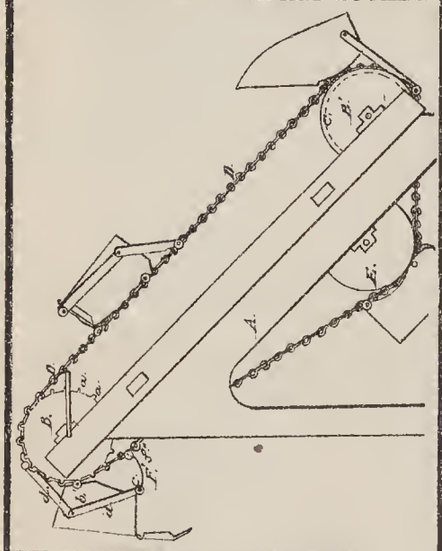
96,864, WILLIAM ARNOLD.
WASHING-MACHINE.



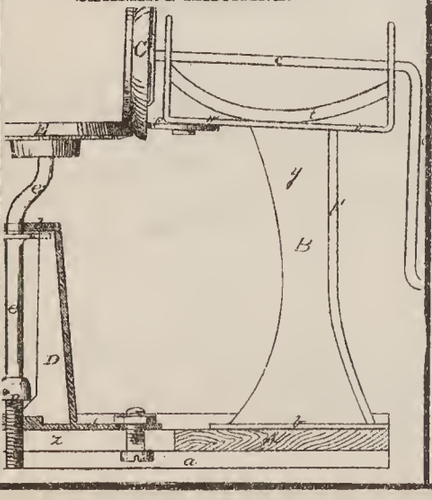
96,865, BENJAMIN BACON.
REVERSIBLE SAFETY-PINION FOR WATCHES.



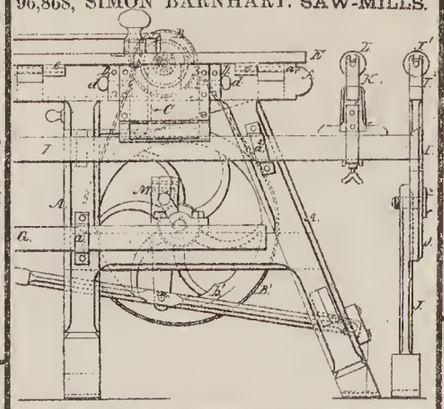
96,866, JOHN A. BALL.
CHAIN-ELEVATOR AND BUCKET.



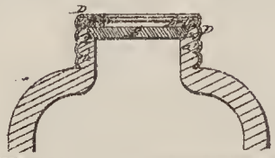
96,867, CHARLES E. BANCROFT.
SEAMING-MACHINE.



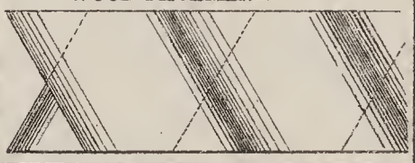
96,868, SIMON BARNHART. **SAW-MILLS.**



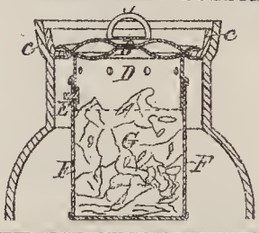
96,869, EDWIN BENNETT. **FRUIT-JARS.**



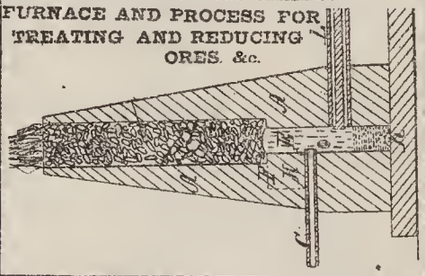
96,870, ALBERT BETTELEY.
WOOD PAVEMENT.



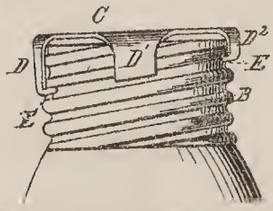
96,871, VIRGIL W. BLANCHARD.
PRESERVING FRUITS, MEATS, AND OTHER SUBSTANCES



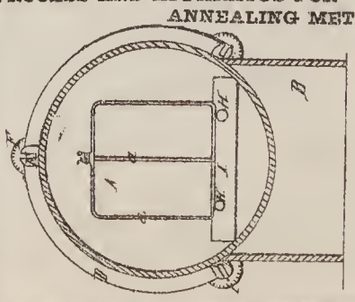
96,872, VIRGIL W. BLANCHARD.
FURNACE AND PROCESS FOR TREATING AND REDUCING ORES, &c.



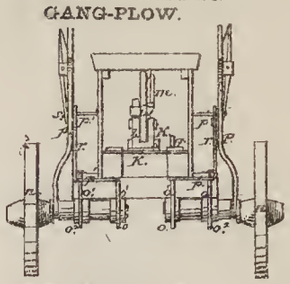
96,873, ELIAM BOORSE.
FASTENINGS FOR FRUIT-JARS.



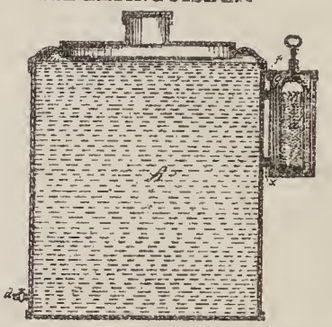
96,874, JAMES M. BOTTUM.
PROCESS AND APPARATUS FOR ANNEALING METALS.



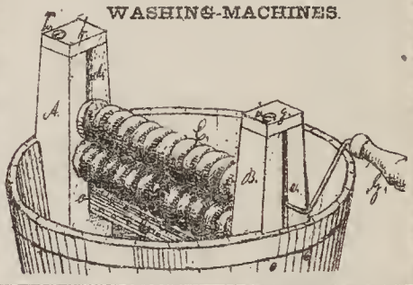
96,875, WORDEN J. BOYCE.
GEO. W. HAINES.
GANG-PLOW.



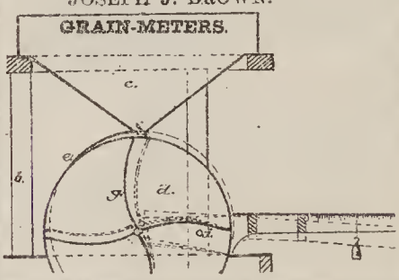
96,876, JOHN F. BOYNTON.
FIRE-EXTINGUISHER.



96,877, CHAS. B. BRISTOL.
WASHING-MACHINES.

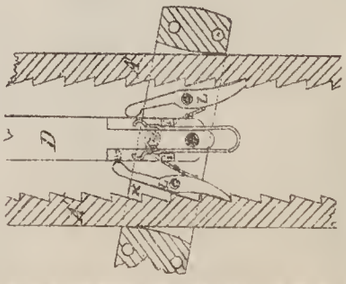


96,878, THOMAS BROCKETT.
JOSEPH J. BROWN.
GRAIN-METERS.

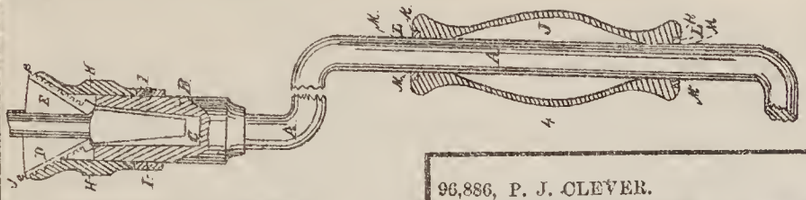


96,879, GEORGE W. BROWN.
SNOW-SHOVEL.

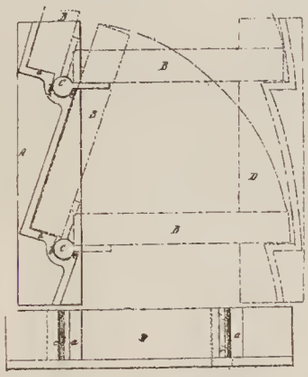
96,880, DANIEL BULL.
CARRIAGE-JACK.



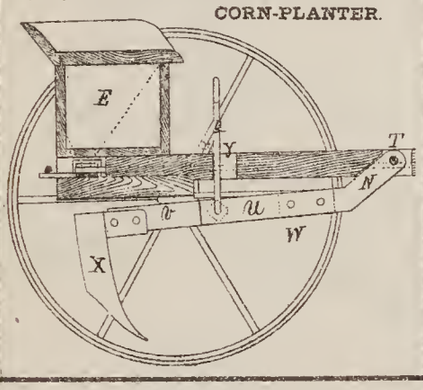
96,881, CALVIN L. BUTLER, BIT-BRACES.



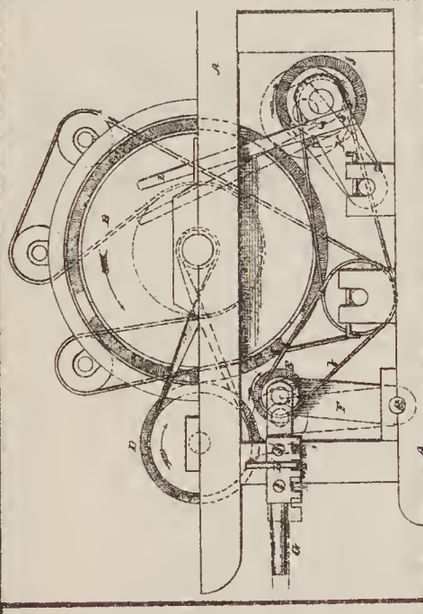
96,882, J. K. CALDWELL.
DRYING-CARS.



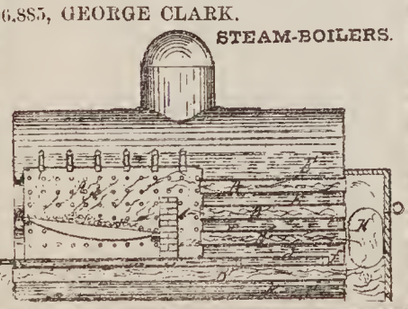
96,883, J. PATTEN CAMPBELL
CORN-PLANTER.



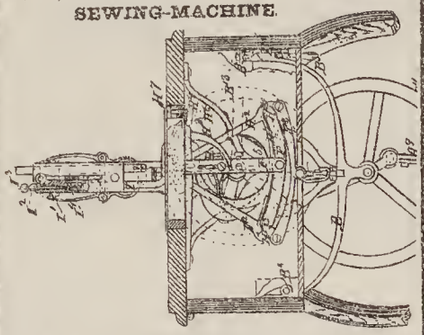
96,884, L. M. CAPRON.
STRIPPERS FOR CARDING-MACHINES.



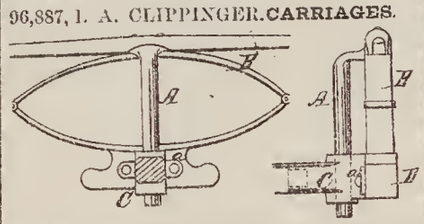
96,885, GEORGE CLARK.
STEAM-BOILERS.



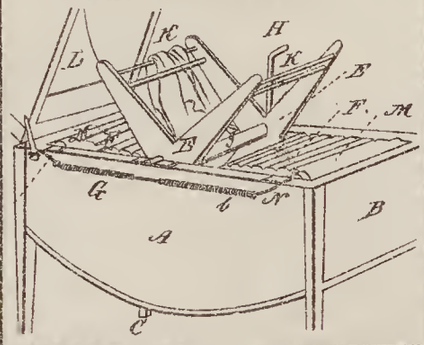
96,886, P. J. CLEVER.
SEWING-MACHINE.



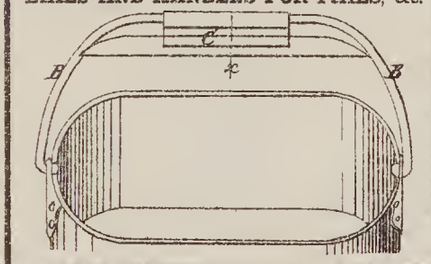
96,887, I. A. CLIPPINGER, CARRIAGES.



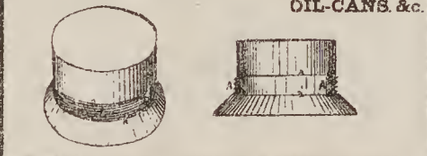
96,888, GEORGE COMBS.
WASHING-MACHINE.



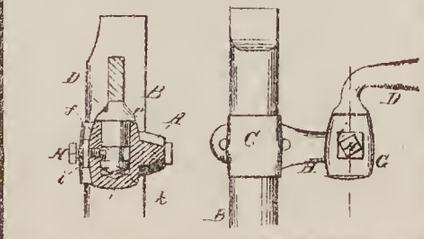
96,889, E. T. COVELL.
BAILS AND HANDLES FOR PAILS, &c.



96,890, E. T. COVELL.
NOZZLE AND SCREW-CAPS FOR OIL-CANS, &c.



96,891, WILLIAM H. COX.
THEOPHILUS LAROUCHE
THILL-COUPLING.



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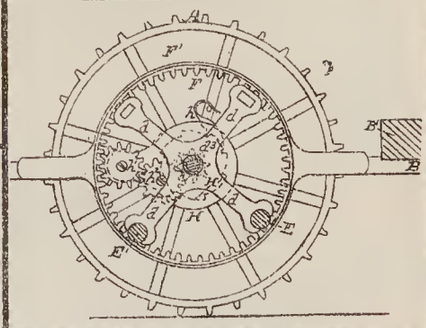
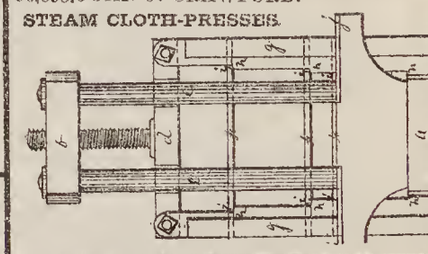
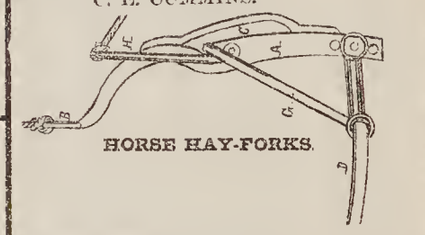
HAY-TEDDER.



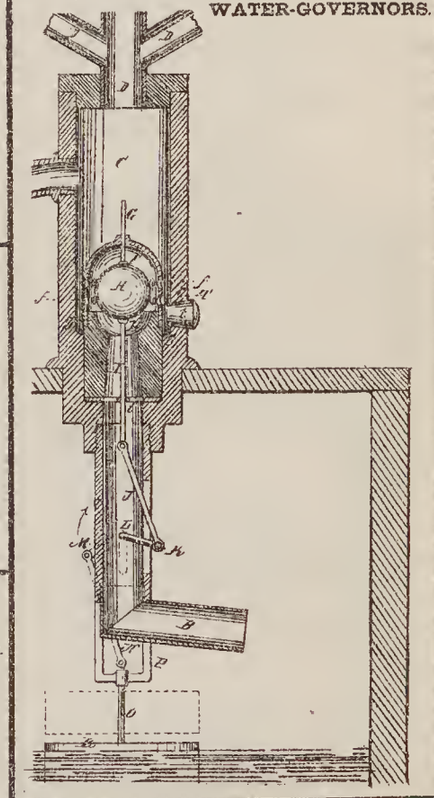
96,893, JOHN J. CRAWFORD.
STEAM CLOTH-PRESSES.



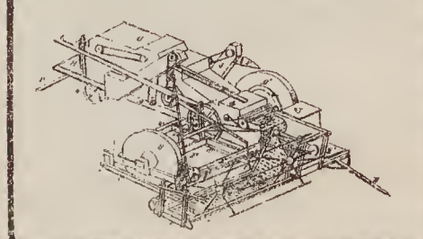
96,894, JEPTHA CUMMINS.
C. E. CUMMINS.
HORSE HAY-FORKS.



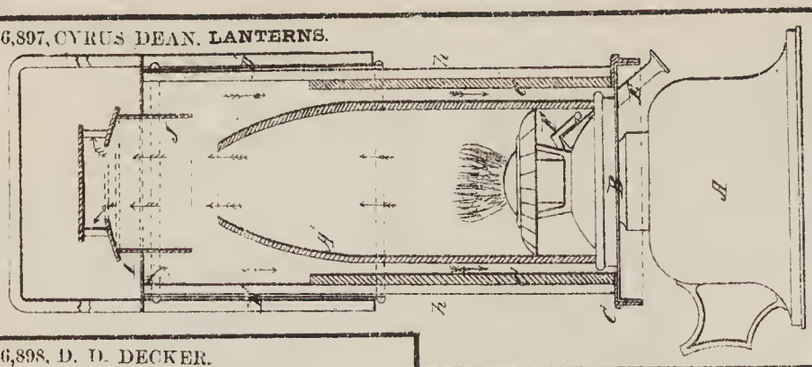
96,895, HENRY CURTNER
WATER-GOVERNORS.



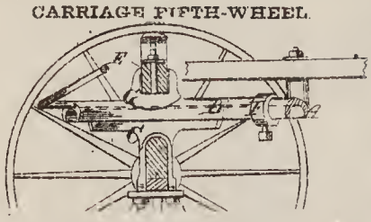
96,896, WM. G. DAVIS.
L. T. DAVIS.
HARVESTER AND THRESHER



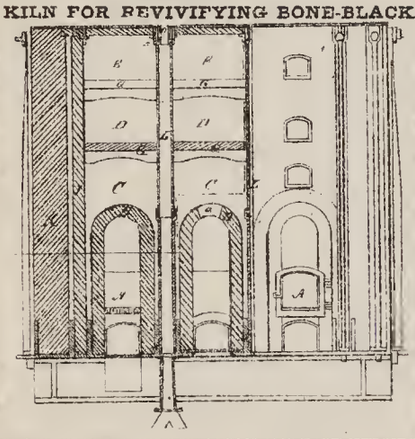
96,897, CYRUS DEAN. **LANTERNS.**



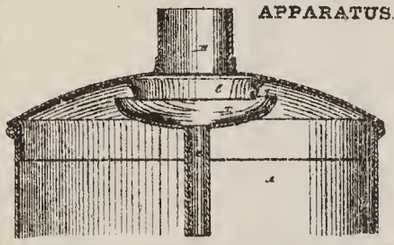
96,898, D. D. DECKER.
CARRIAGE FIFTH-WHEEL.



96,899, J. O. DONNER.
KILN FOR REVIVIFYING BONE-BLACK.



96,900, J. O. DONNER.
VACUUM-PANS AND SIMILAR APPARATUS.



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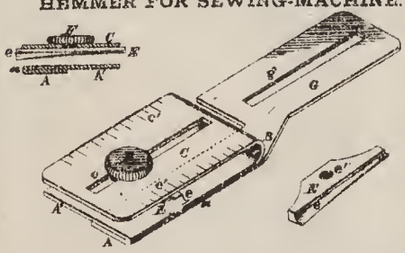
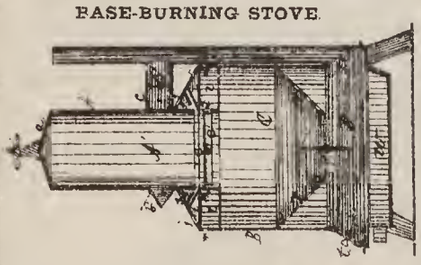
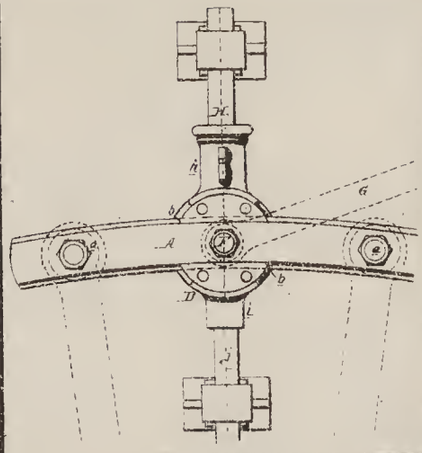
HEMMER FOR SEWING-MACHINE.



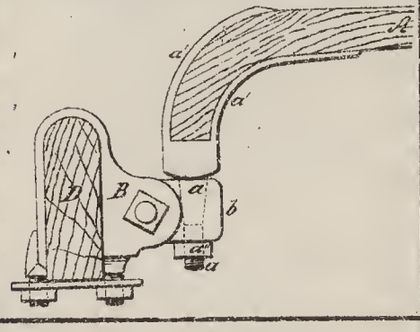
96,902, MICHEL G. FAGAN.
BASE-BURNING STOVE.



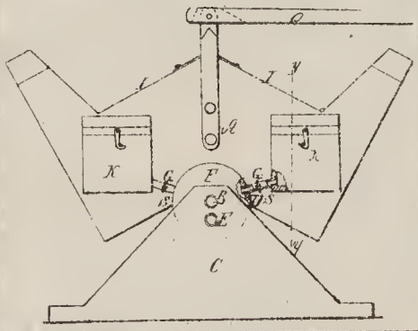
96,903, EDWARD FARON.
LINK-MOTION DEVICE FOR STEAM-ENGINES.



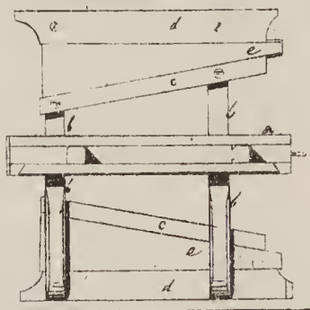
96,904, CYRUS FISHER.
CARRIAGE-TEILL COUPLINGS.



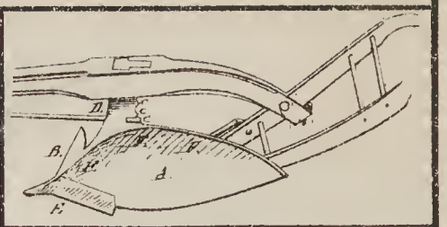
96,905, FRIEND P. FLETCHER.
VIRGIL W. BLANCHARD.
MANUFACTURE OF IRON AND STEEL.



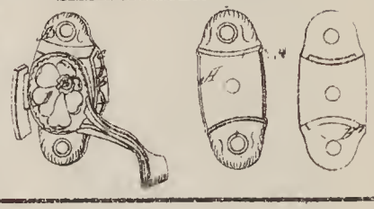
96,906, J. M. FLETCHER.
CHURN-DASHER.



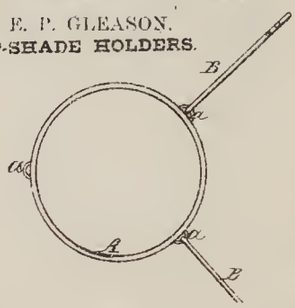
96,907, ASAHEL FRANKLIN.
PLOWS.



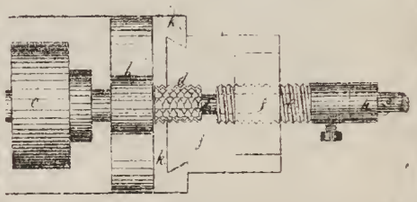
96,908, J. G. GARRETSON.
OLIVER S. GARRETSON.
SASH-HOLDER.



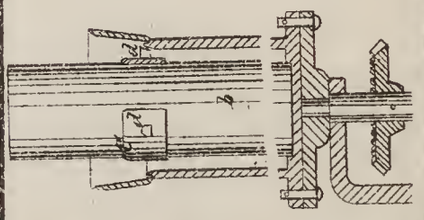
96,909, E. P. GLEASON.
LAMP-SHADE HOLDERS.



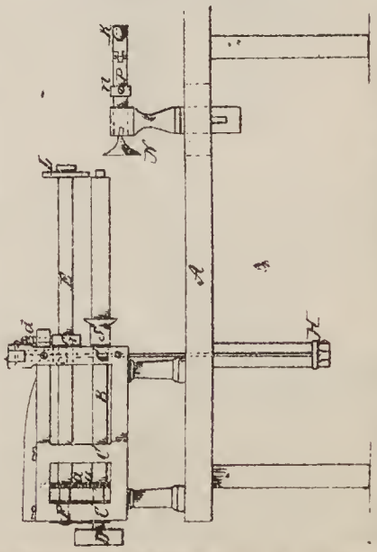
96,910, JOHN J. GRANT
MACHINES FOR CUTTING THREADS ON BOLTS.



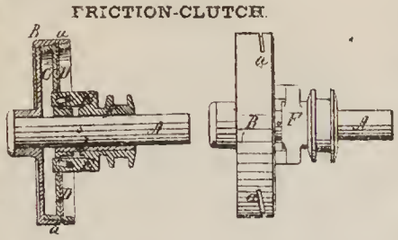
96,911, JAMES F. GUTHRIE.
CASTING COPPER TUBES.



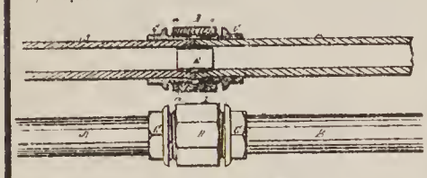
96,912, SAMUEL HALLIWELL.
TUBE-CUTTING MACHINE.



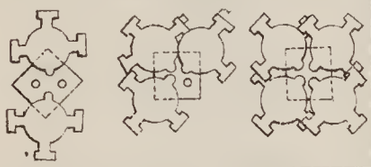
96,913, MOSES HAWKINS
FRICTION-CLUTCH.



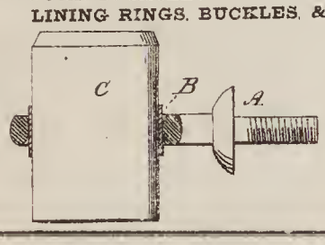
96,914, ROWLAND HILL PIPE-COUPLING



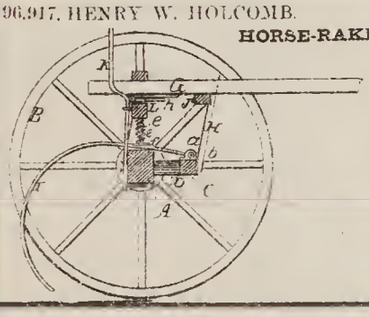
96,915, DAVID HIRSCHBERG. CARPET.



96,916, JOHN P. HISLEY
LINING RINGS, BUCKLES, &c.

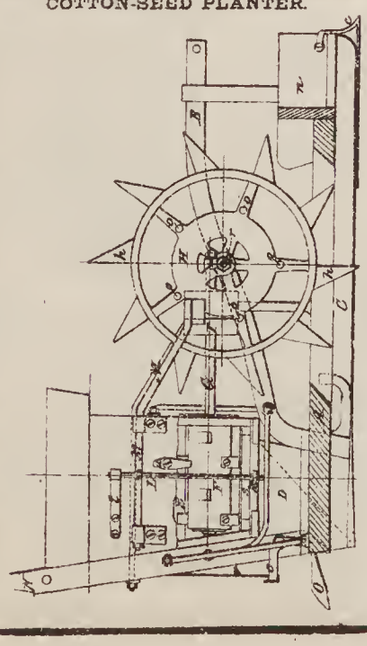


96,917, HENRY W. HOLCOMB.
HORSE-RAKES

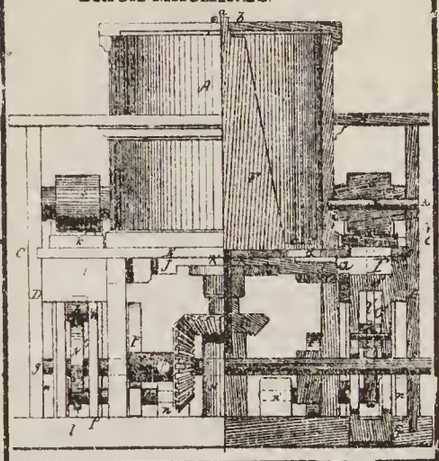


96,918, P. HOWARD.
WOODEN PAVEMENT.

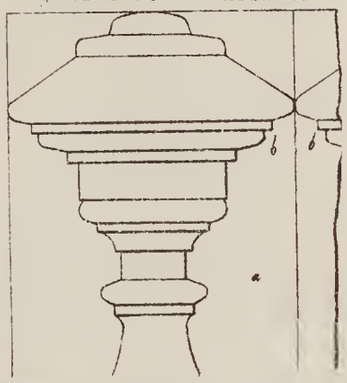
96,919, O. P. HUMBER.
COTTON-SEED PLANTER.



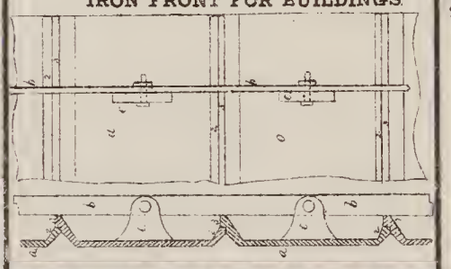
96,920, DAVID J. HUNTER.
BRICK-MACHINES.



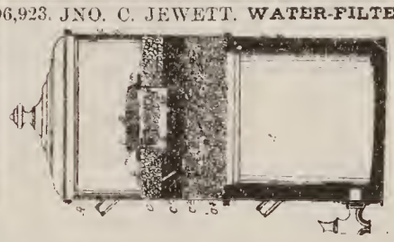
96,921, T. A. HUNTER.
JOHN BLEWITT.
FACING FOR BUILDINGS.



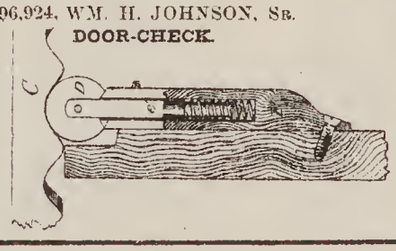
96,922, PETER H. JACKSON.
IRON FRONT FOR BUILDINGS.



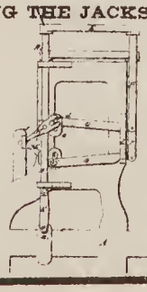
96,923, JNO. C. JEWETT. WATER-FILTER



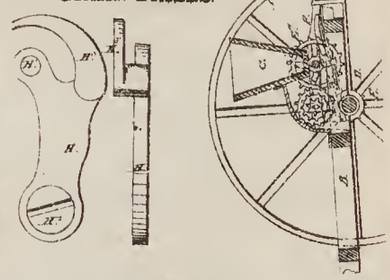
96,924, WM. H. JOHNSON, SR.
DOOR-CHECK.



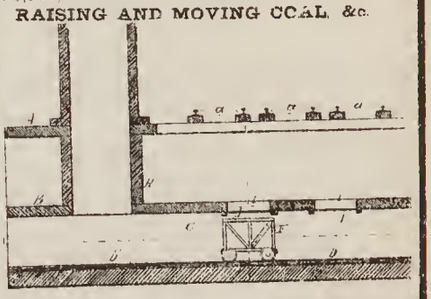
96,925, CHAS. H. KNOWLTON
OPERATING THE JACKS IN LOOMS.



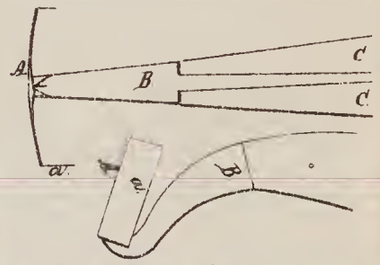
96,926, BENJAMIN KUHNS.
GRAIN-DRILLS.



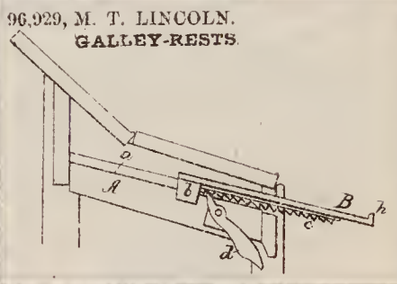
96,927, ALFRED LAWTON.
RAISING AND MOVING COAL, &c.



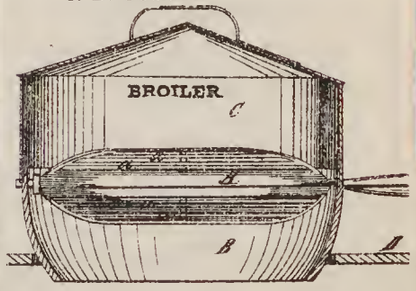
96,928, FRANZ LEHMANN.
HORSE-SHOERS' HOOF-PARER.



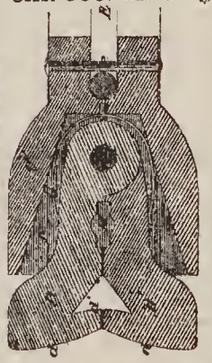
96,929, M. T. LINCOLN.
GALLEY-RESTS.



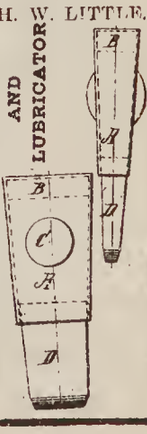
96,930, G. H. LINK.
C. D. CURTIS.
BROILER.



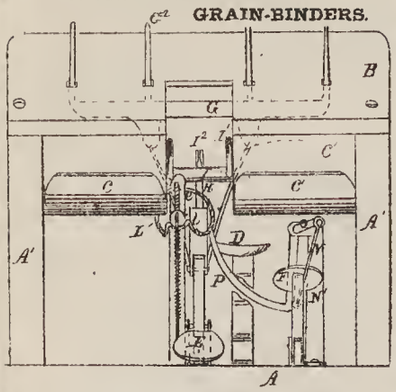
96,932,
FRANK B. LORD.
CAR COUPLING.



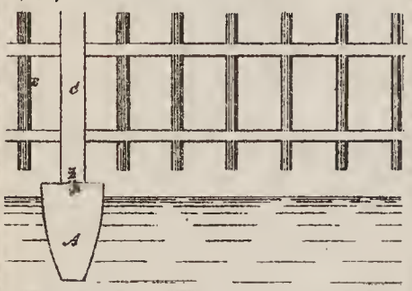
96,931,
H. W. LITTLE.
NEEDLE-POLISHER, SHARPENER, AND LUBRICATOR.



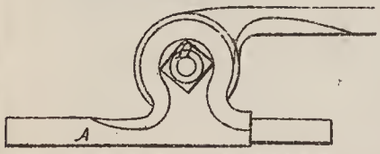
96,933, J. W. LOVELESS.
CHAS. H. SHAFFER.
GRAIN-BINDERS.



96,934, CLOVIS LOWE. **FENCE.**

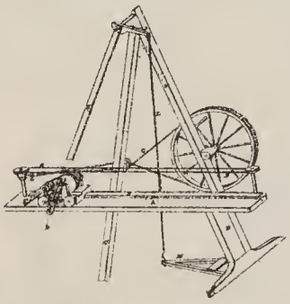


96,935, JOHN MADDEN.
UPSON BUSHNELL.
THILL-SHACKLE.

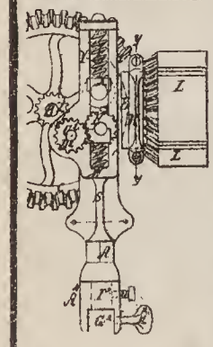


96,936, FOLSOM DORSETT.
G. A. MARINER.
COMPOSITION FOR PREVENTING OXIDATION OF METALLIC WATER OR GAS-PIPES.

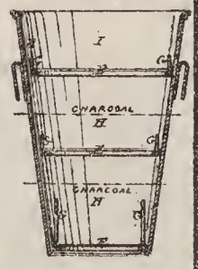
96,937, CHELTON MATHENY.
HAND-SPINNING MACHINES.



96,938,
WM. M. MAYALL.
CORN-SHELLERS.

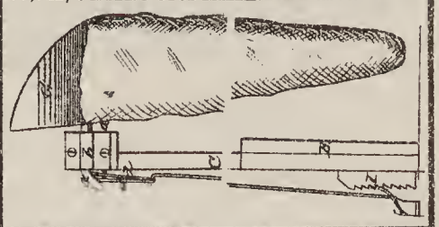


96,939,
JAS. McCORMICK
BREWING ALE, BEER, &c.

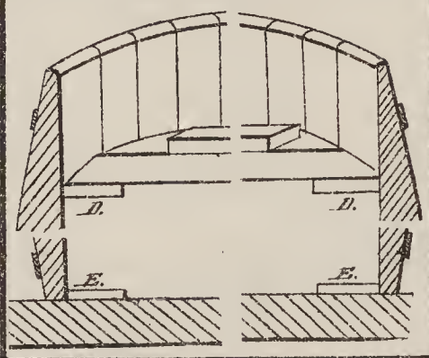


96,940, JOHN McNEVEN.
VAPOR-BATH APPARATUS.

96,941, JAMES McPHAIL. **BAG-HOLDERS.**

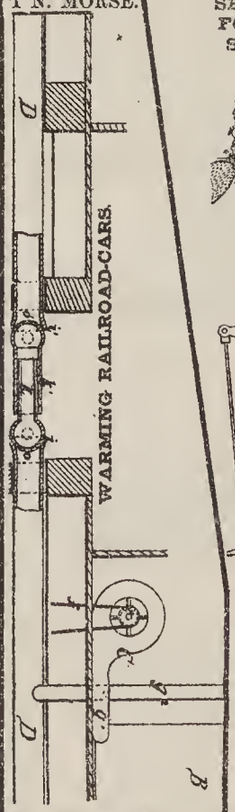


96,942. HENRY W. MILLAR.
CHEESE-HOOPS.

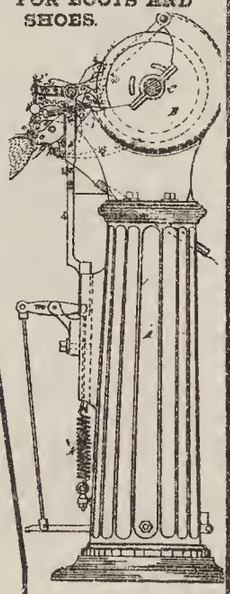


96,943, SAMUEL J. MILLER.
MEDICAL COMPOUND FROM OAK-BARK.

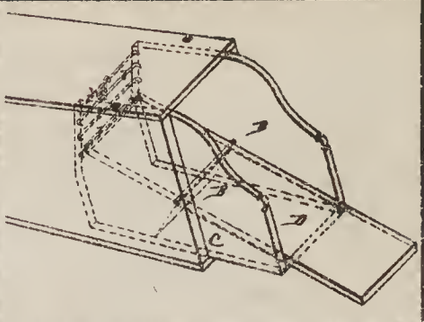
96,945.
T. N. MORSE.
WARMING RAILROAD-CARS.



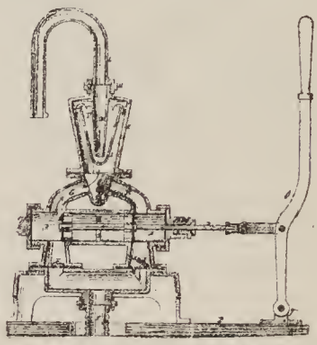
96,944. DANL. MILLS.
SEWING-MACHINE FOR BOOTS AND SHOES.



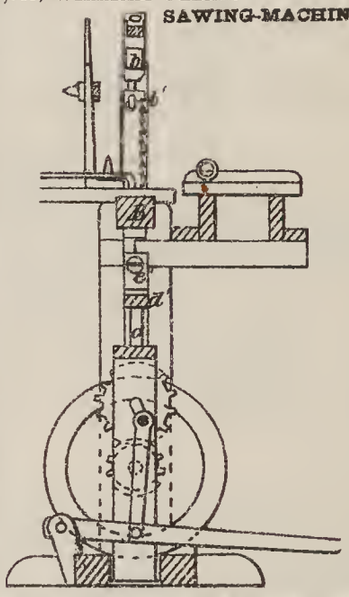
96,946. JOSEPH NAMPEL.
ANIMAL-TRAP



96,947, SAML. B. B. NOWLAN. **PUMPS.**

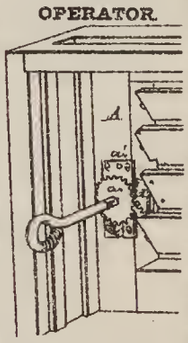


96,948, WILLIAM OLLER.
SAWING-MACHINE.

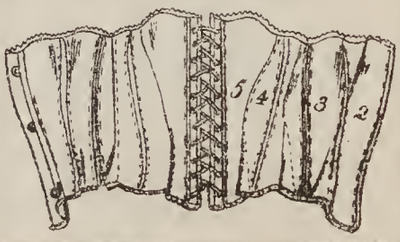


96,949,
CHAS. R. OTIS.
SEAMS FOR TIN CANS.

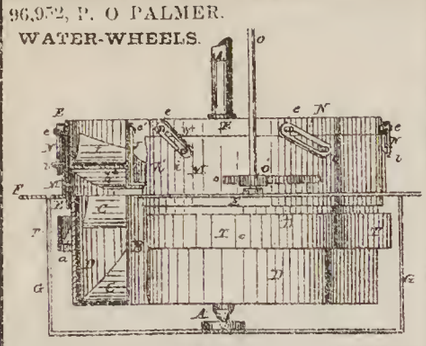
96,950,
OSCAR PADDOCK.
BLIND-SLAT OPERATOR.



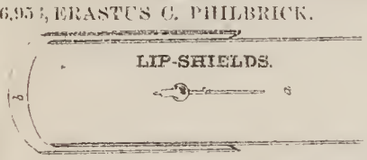
96,951, L. A. PALMER. **CORSETS.**



96,952, P. O PALMER.
WATER-WHEELS.

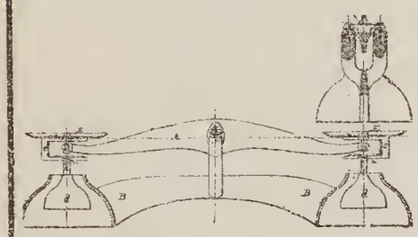


96,953, ERASTUS C. PHILBRICK.
LIP-SHIELDS.

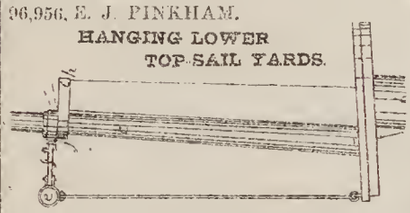


96,954, CHAS. FELTON PIDGIN.
FABRIC FOR SHIRT-COLLARS.

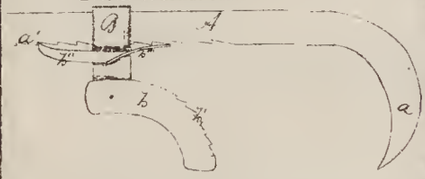
96,955, WILLIAM P. PIERCE.
WEIGHING-SCALES.



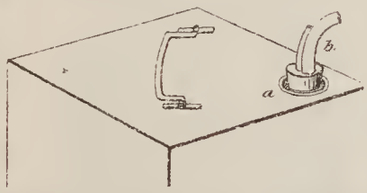
96,956, E. J. PINKHAM.
HANGING LOWER TOP-SAIL YARDS.



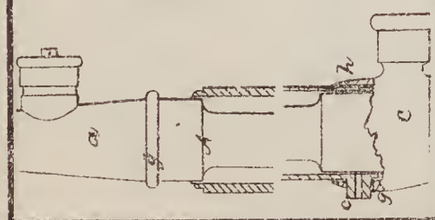
96,957, CHARLES POMEROY.
PIPE-WRENCH.



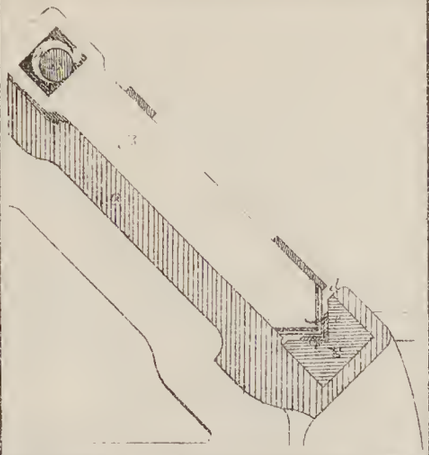
96,958, CHAS. PRATT.
OIL-CANS.



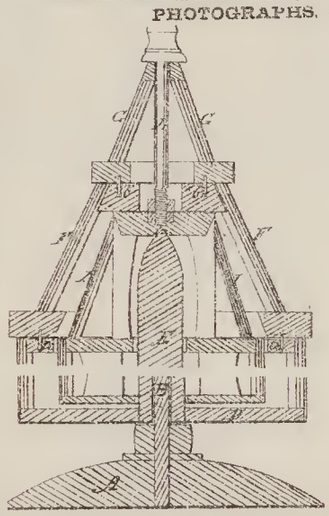
96,959, WASHBURN RACE.
S. R. C. MATHEWS.
HYDRANTS.



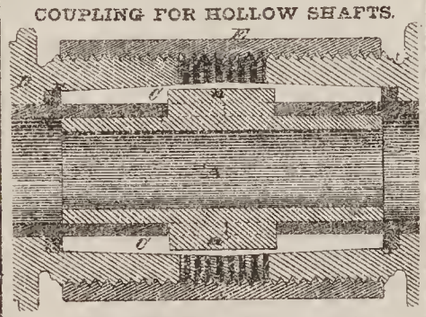
96,960, THOS. REANEY.
MACHINE FOR SHEARING ANGLE-IRON.



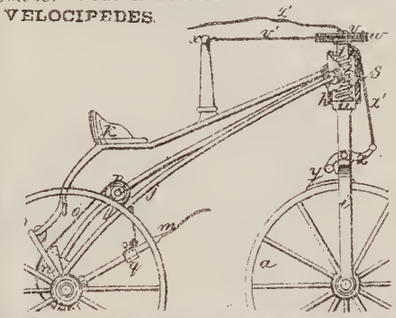
96,961, J. S. REID.
STAND FOR EXHIBITING PHOTOGRAPHS, &c.



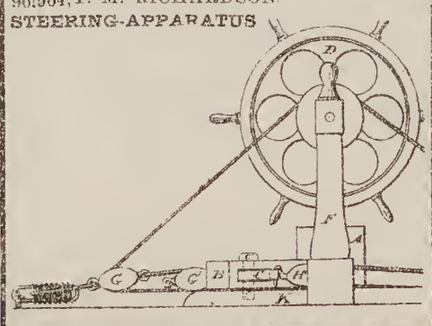
96,962, P. W. REINSHAGEN.
COUPLING FOR HOLLOW SHAFTS.



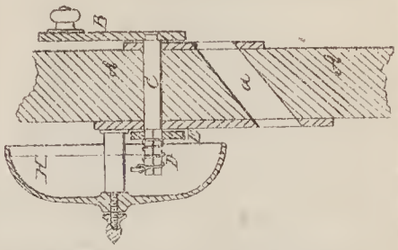
96,963, JOSEPH REPETTI.
VELOCIPEDES.



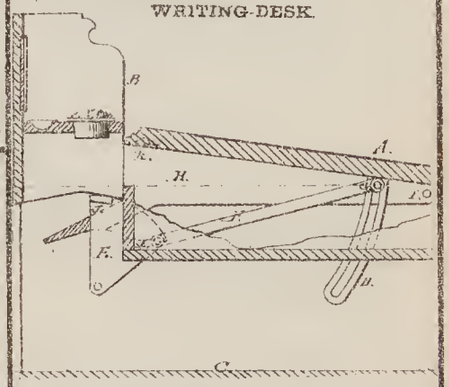
96,964, T. M. RICHARDSON.
STEERING-APPARATUS.



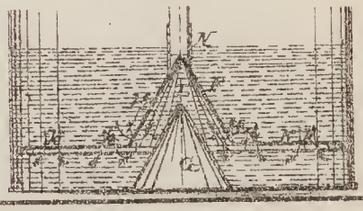
96,965, EDWARD H. RIPLEY.
ALARM FOR LETTER-BOXES.



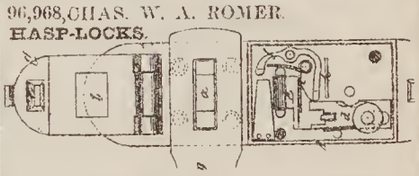
96,966, FREDERICK ROBBIN.
WRITING-DESK.



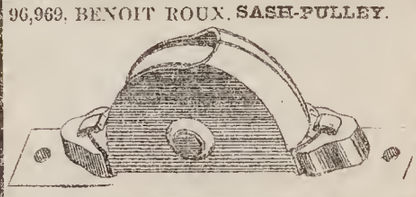
96,967, F. L. ROBERTS
CHURNS.



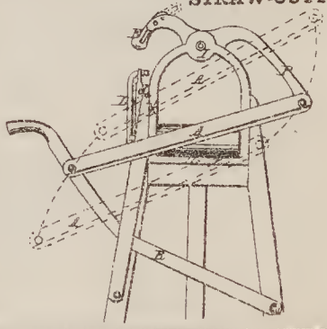
96,968, CHAS. W. A. ROMER.
HASP-LOCKS.



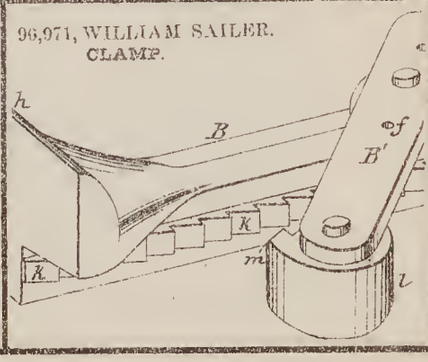
96,969, BENOIT ROUX, SASH-PULLEY.



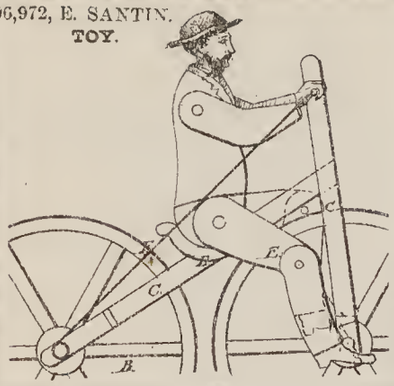
96,970, J. V. ROWLETT.
STRAW-CUTTERS.



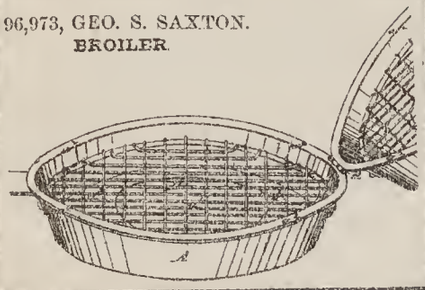
96,971, WILLIAM SAILER.
CLAMP.



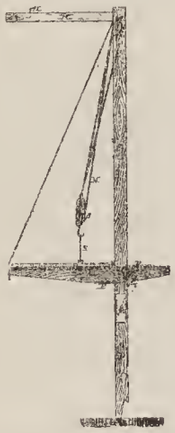
96,972, E. SANTIN.
TOY.



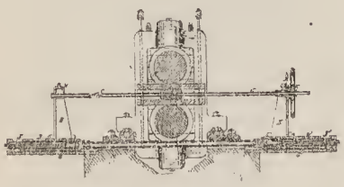
96,973, GEO. S. SAXTON.
BROILER.



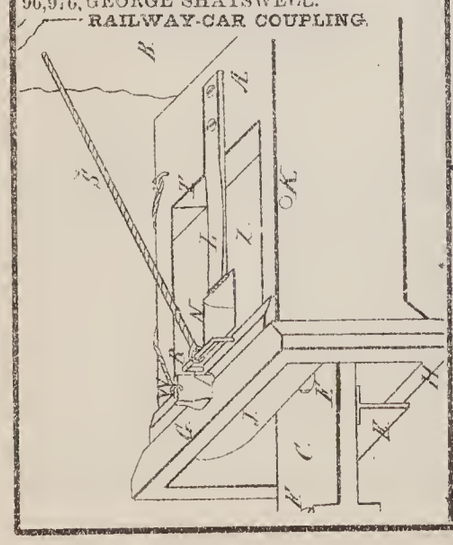
96,974, JACOB SHEETZ.
PLATFORM-LADDER.



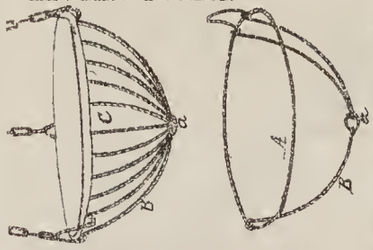
96,975, GEORGE H. SELLERS.
MACHINE FOR ROLLING TUBES.



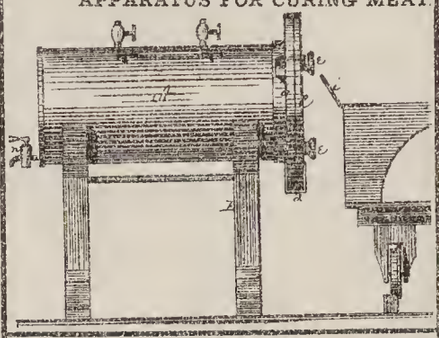
96,976, GEORGE SHATSWELL.
RAILWAY-CAR COUPLING.



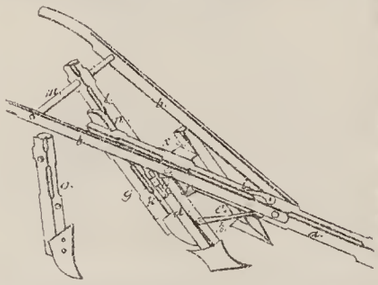
96,977, DANIEL SHERWOOD.
HANGING BASKET.



96,978, MERRILL B. SHERWOOD, Jr.
APPARATUS FOR CURING MEAT.

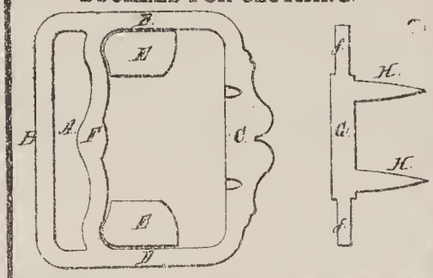


96,979, JAMES SIMPSON. CULTIVATORS.

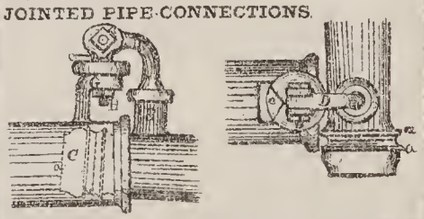


96,980, CHAS. E. SMITH. BLIND-RACK.

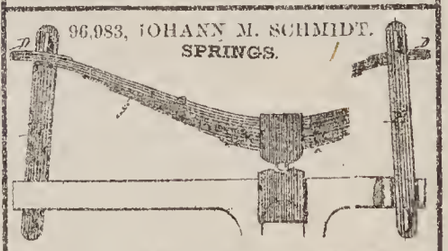
96,981, EARLE A. SMITH.
BUCKLES FOR CLOTHING.



96,982, HIRAM SMITH.
JOINTED PIPE-CONNECTIONS.

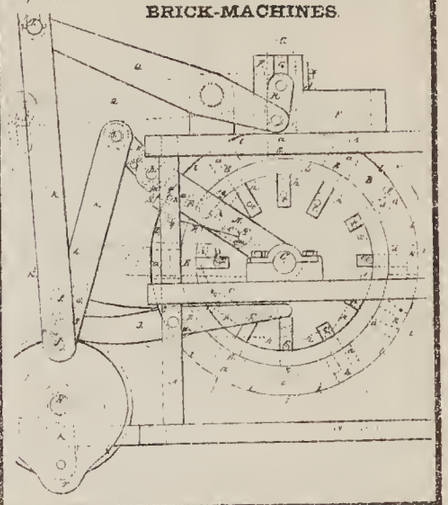


96,983, JOHANN M. SCHMIDT.
SPRINGS.

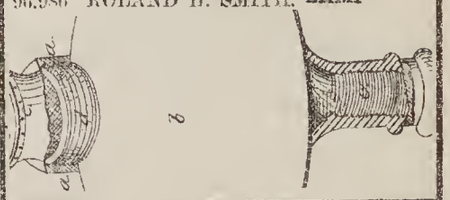


96,984, JOHN W. SMITH.
CONCRETE COMPOUND FOR PAVEMENTS, &c.

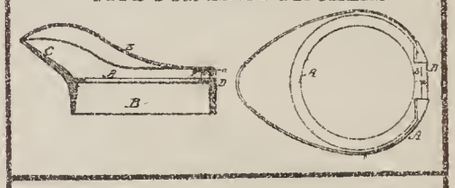
96,985, PETER J. SMITH.
BRICK-MACHINES.



96,986 ROLAND H. SMITH. LAMP

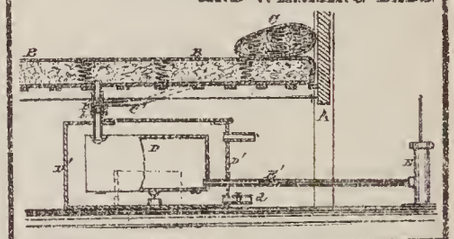


96,987, THOMAS SMITH, Jr.
TOPS FOR SIRUP-PITCHERS.

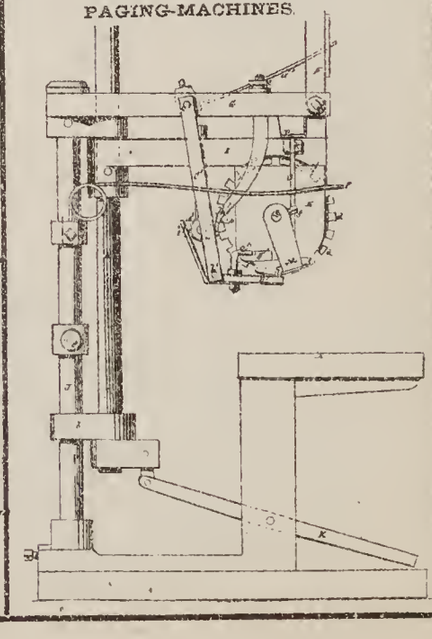


96,988,
HIRAM F. SNOW AND JAMES H. DAVIS.
COMPOSITIONS FOR PAVEMENTS.

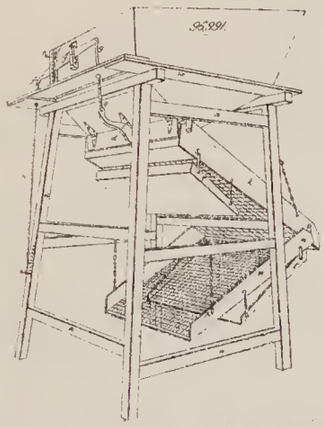
96,989, D. E. SOMES.
VENTILATING, COOLING, AND WARMING BEDS.



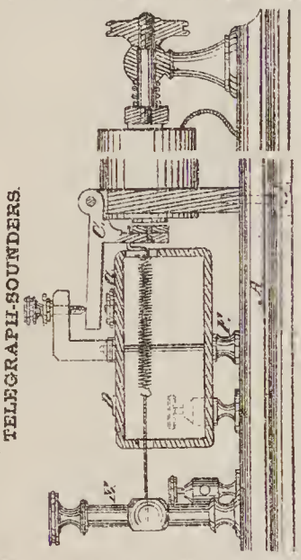
96,990, SAMUEL W. SOULE.
PAGING-MACHINES.



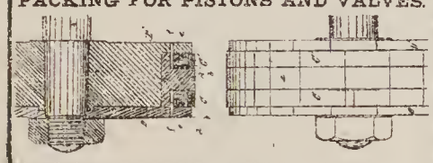
96,991, WILLIAM SPARKS. COAL-SCREEN.



96,992, HENRY SPLITDORF. TELEGRAPH-SOUNDERS.

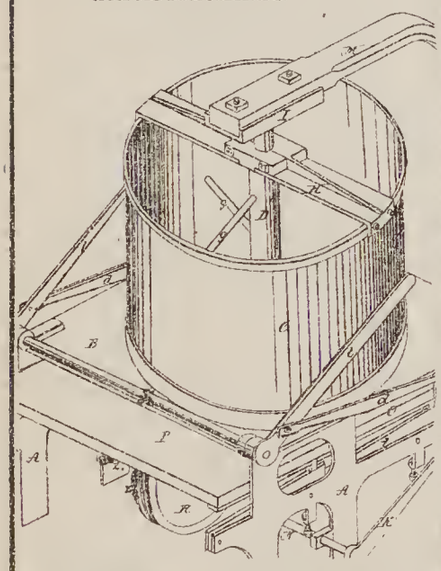


96,993, WM. M. STEVENSON. AUSTIN PEARCE. PACKING FOR PISTONS AND VALVES.

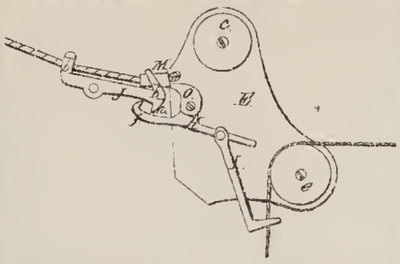


96,994, JOHN STOWELL. BAKING-POWDER.

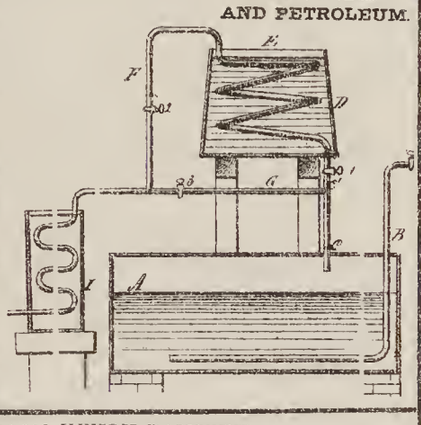
96,995, R. STUCKWISCH. BRICK-MACHINES.



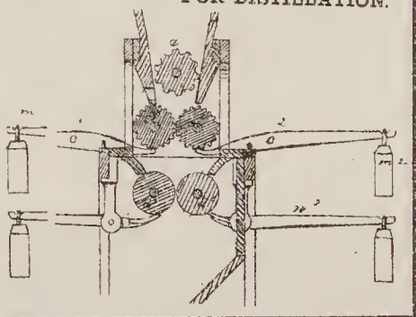
96,996, HIROM C. STOUFFER. HAY-ELEVATORS.



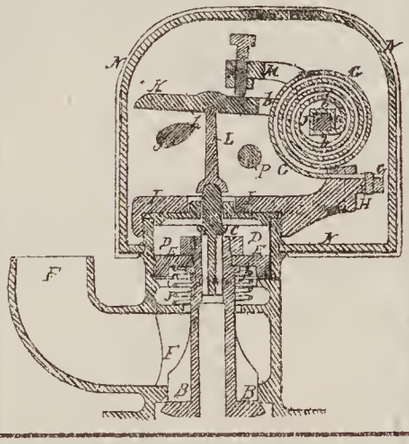
96,997, A. H. TAIT. STILLS FOR DISTILLING NAPHTHA AND PETROLEUM.



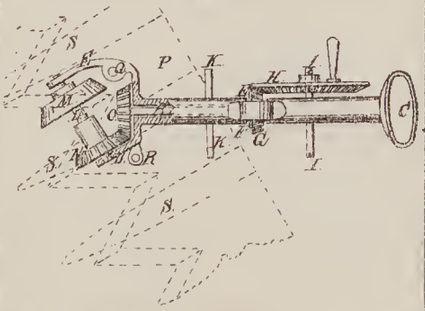
96,998, HENRY TAUSZKY. PROCESS OF PREPARING GRAIN FOR DISTILLATION.



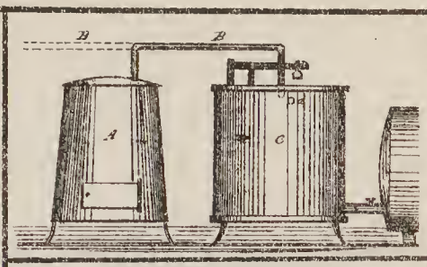
96,999, HENRY TAYLOR, J. M. COALE. SAFETY-VALVE.



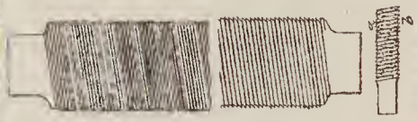
97,000, ANSON P. THAYER. MACHINE FOR GRINDING THE CUTTERS OF MOWING-MACHINES.



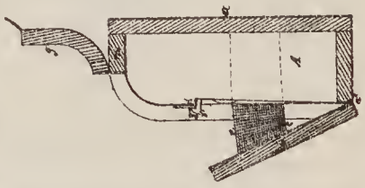
97,001, ELI THAYER. COLLECTING AND STORING CARBONIC ACID FOR EXTINGUISHING FIRES.



97,002, ALBERT THOMPSON. FILE.

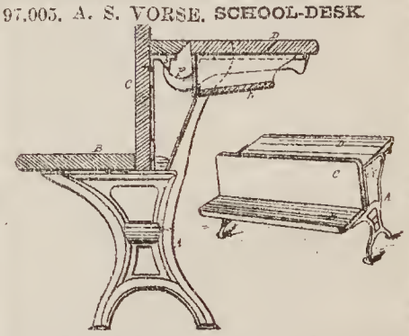


97,003, JAS. P. TIBBITS. BOOK-RACK.

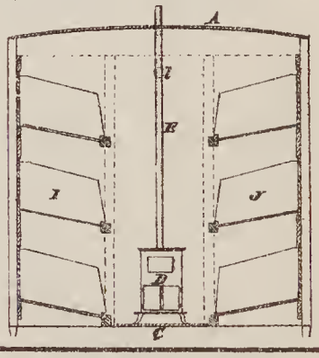


97,004, CHRISTIAN VOLCKMANN. ARTIFICIAL MARBLE.

97,005, A. S. VORSE. SCHOOL-DESK.

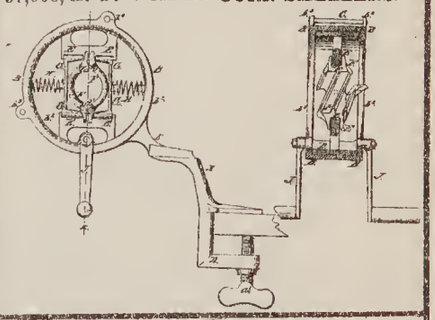


97,006, JOSEPH M. WARD. DRIER.

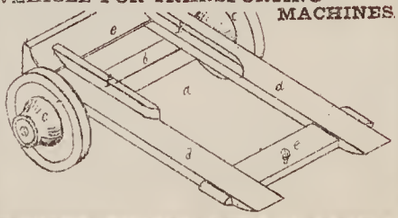


97,007 ALEXR. WARFIELD. SOAP.

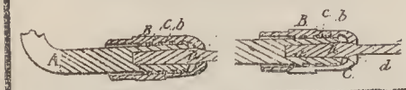
97,008, H. P. WATTS. CORN-SHELLERS.



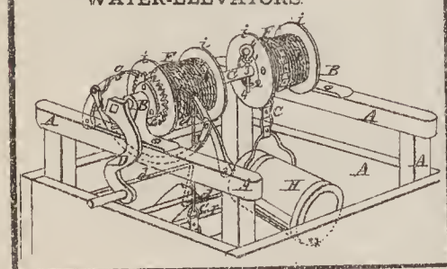
97,009, GEORGE W. WHEELER, 2D. VEHICLE FOR TRANSPORTING MACHINES.



97,010. CHARLES P. WHITMAN.
BIT-STOCK FASTENING.

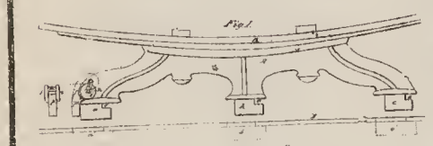


97,011, T. P. WILCOX.
WATER-ELEVATORS.

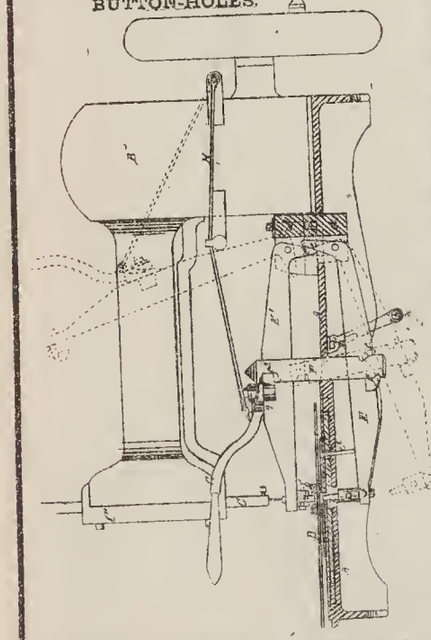


97,012, DANIEL WITT.
AARON WAIT.
HANDLE FOR BRUSHES, CARDS, &c.

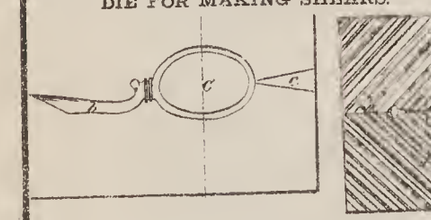
97,013, DAVID J. WILCOXSON.
ATTACHING SEATS TO WAGONS.



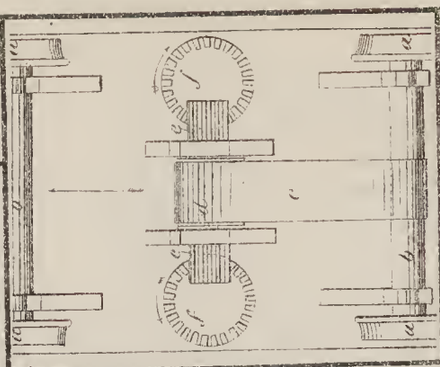
97,014, GEO. B. WOODRUFF,
GEORGE BROWNING.
SEWING-MACHINE FOR
BUTTON-HOLES.



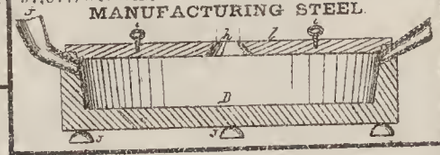
97,015, SOLOMON H. WOODS.
DIE FOR MAKING SHEARS.



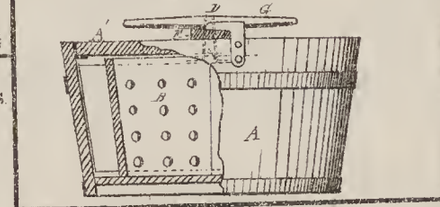
97,016, HARVEY A. WRIGHT.
SIGNAL-LIGHTS FOR
RAILROAD-CARS.



97,017, JAMES J. JOHNSTON.
MANUFACTURING STEEL.



97,018, GEO. L. WITSIL.
WASHING-MACHINE



97,019, GEO. L. WITSIL.
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THE COB, &c.

97,020, A. VAN CAMP.
M. M. HODGMAN.
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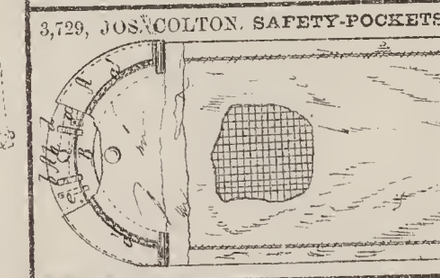
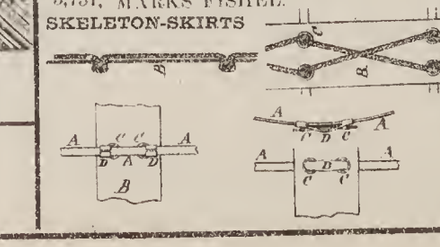
3,728, J. AHEARN.
COMPOSITION FOR DESTROYING
INSECTS ON FRUIT-TREES.

3,729, JOS. COLTON. SAFETY-POCKETS.



3,730, MARKS FISHEL.
SKELETON-SKIRTS.

3,731, MARKS FISHEL.
SKELETON-SKIRTS



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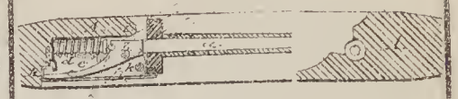
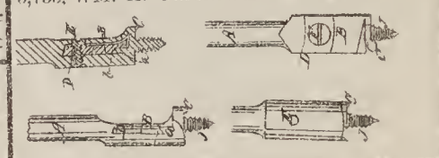
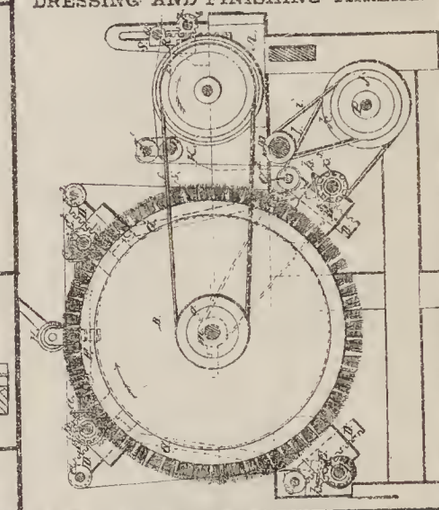
LIBERTY LITCHFIELD.
LIBYA M. LITCHFIELD.
SHUTTLES FOR LOOMS.



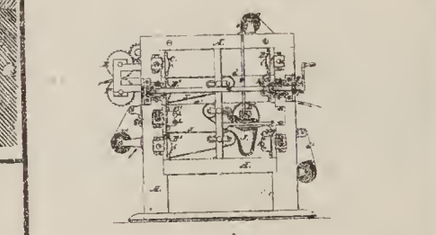
3,733, WM. A. CLARK. EXPANSIVE BITS.



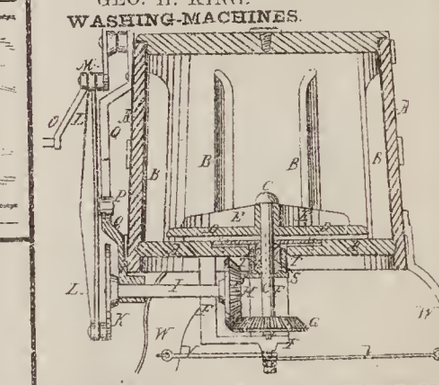
3,734, TIMOTHY MERRICK.
ORIGIN HALL.
DRESSING AND FINISHING THREAD.



3,735, RICHD. M. HOE.
STEPHEN D. TUCKER.
PRINTING-PRESSES.

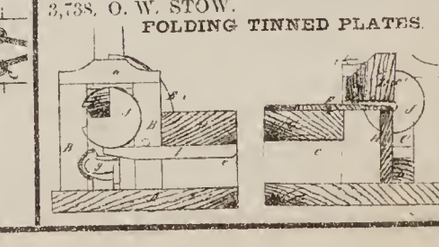


3,736, ALEX. KING.
GEO. H. KING.
WASHING-MACHINES.



3,737, ANSON C. McMAHAN.
COMPOUND FOR CURING CHOLERA
IN HOGS AND CHICKENS.

3,738, O. W. STOW.
FOLDING TINNED PLATES.



ILLUSTRATIONS OF PATENTS

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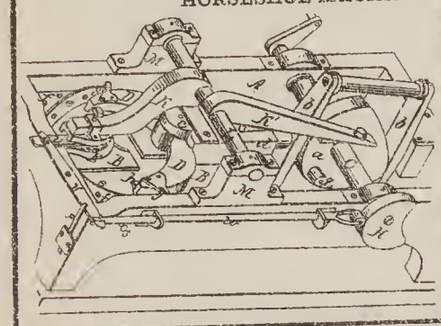
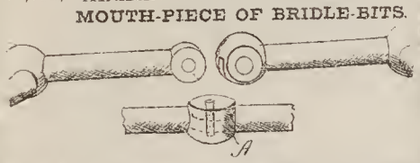
NOV. 23, 1869.

97,021. WESLEY ANDERSON.
HORSESHOE-MACHINE.

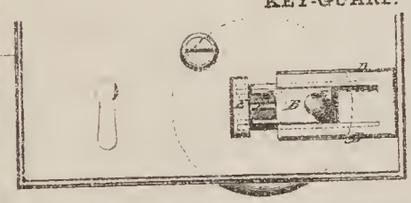


97,022, ALEXANDER P. BALDWIN.
MOUTH-PIECE OF BRIDLE-BITS.

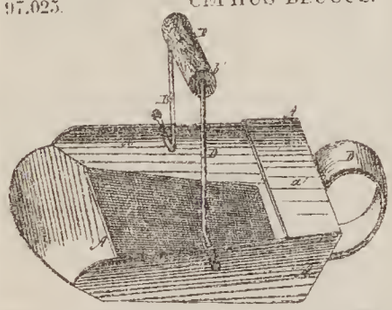


97,023, JNO. F. BEAZEL.
WELDING IRON AND STEEL.

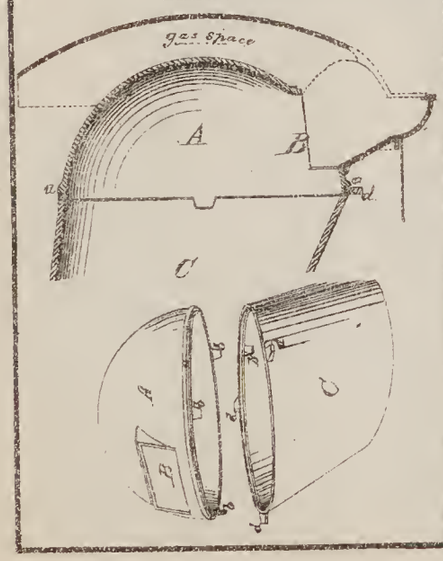
97,024. MAX E. BEROLZHEIMER.
KEY-GUARD.



SCOOP AND SIFTER FOR FLOUR, &c.
97,025. CEPHUS BEUCUS.



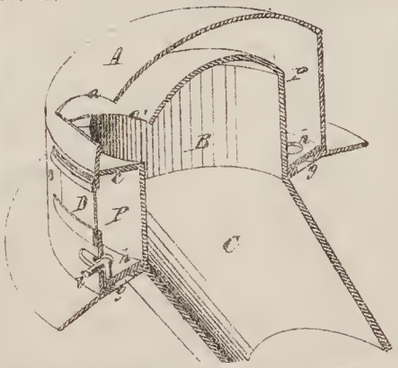
97,026. BENTLEY C. BIBB.
BASE-BURNING STOVES.



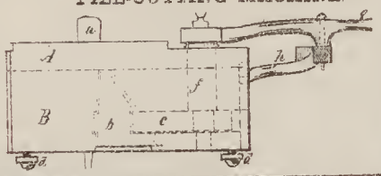
97,027. BENTLEY C. BIBB.
FIRE-PLACE STOVES.

97,028, BENTLEY C. BIBB.
PHILIP KLOTZ.
FIRE-PLACE STOVES.

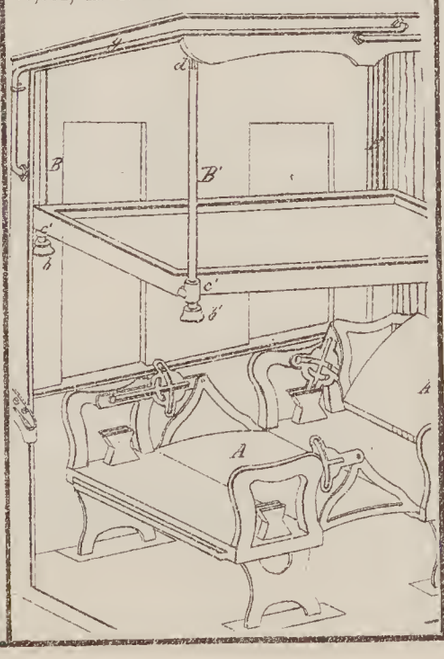
BENTLEY C. BIBB.
PHILIP KLOTZ.
97,029. **FIRE-PLACE STOVES.**



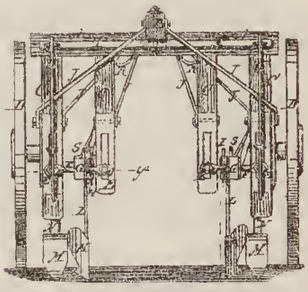
WILLIAM J. BIRDSALL.
97,030, **CHISEL-HOLDER FOR FILE-CUTTING MACHINE.**



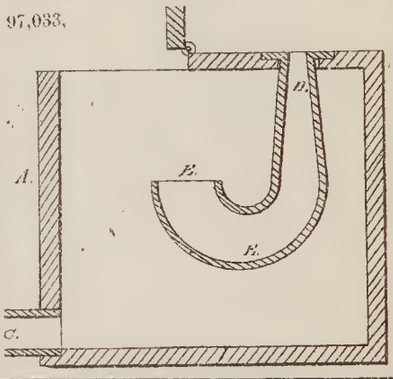
97,031, H. S. BLOOD. **SLEEPING-CAR.**



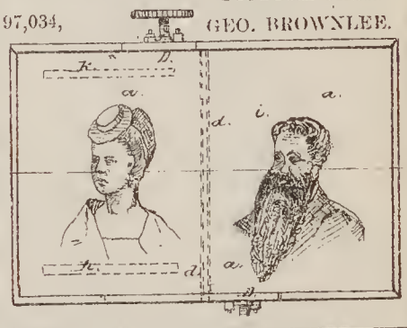
97,032, S. W. BROCK.
CULTIVATORS.



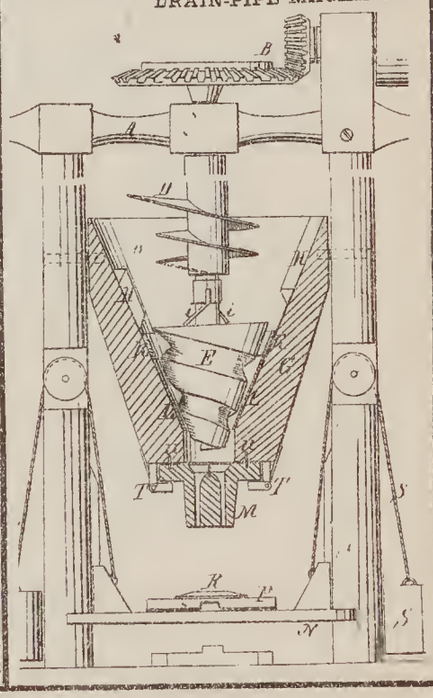
STENCH-TRAPS. JESSE BROWN.
97,033.



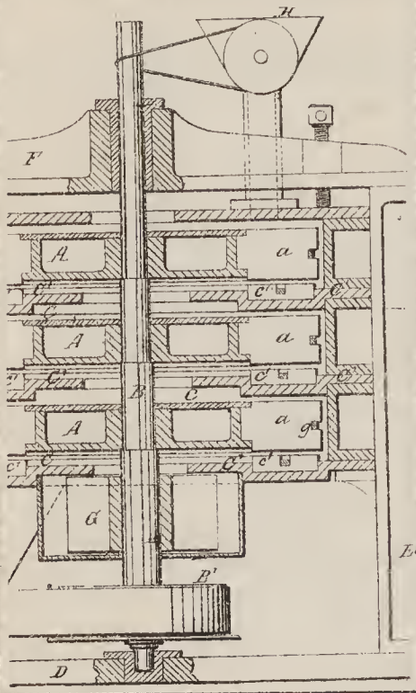
PICTURE-CASE.
97,034, GEO. BROWNLEE.

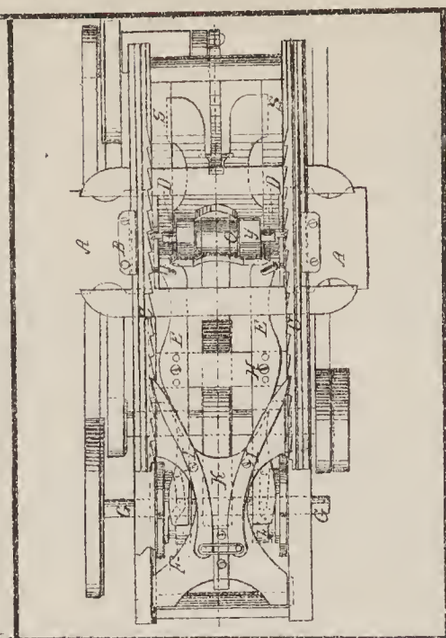


97,035, I. C. BRYANT.
DRAIN-PIPE MACHINES.

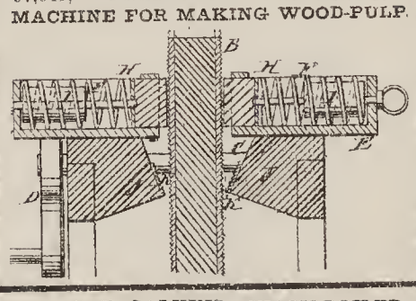


97,036. G. A. BUCHHOLZ.
MANUFACTURE OF SEMOLINA.

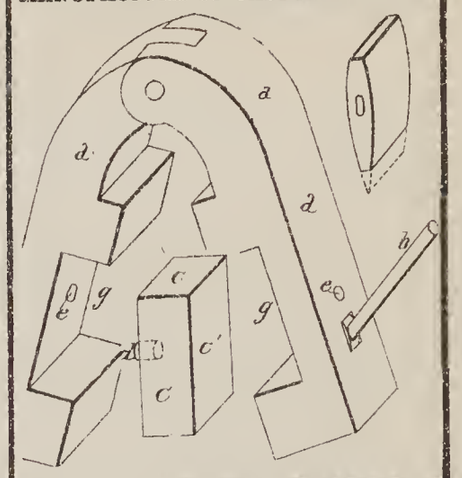




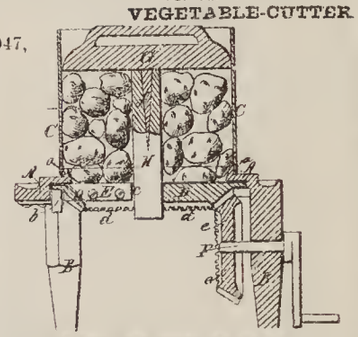
97,041. FREDERICK BURGHARDT.
MACHINE FOR MAKING WOOD-PULP.



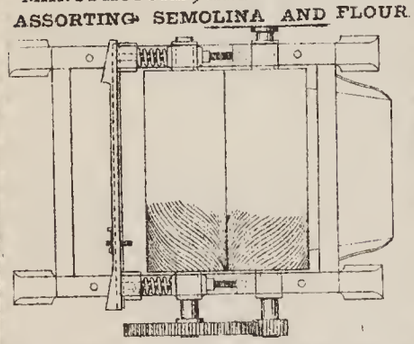
97,046. LUKE CHAPMAN.
MANUFACTURE OF CAST-METAL DIES



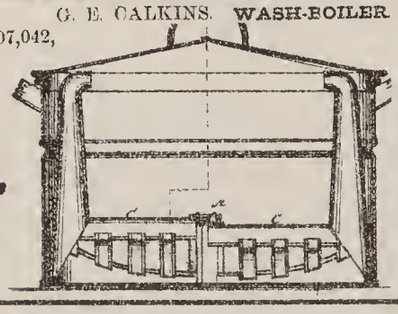
M. H. CHRYSLER.
VEGETABLE-CUTTER.
97,047.



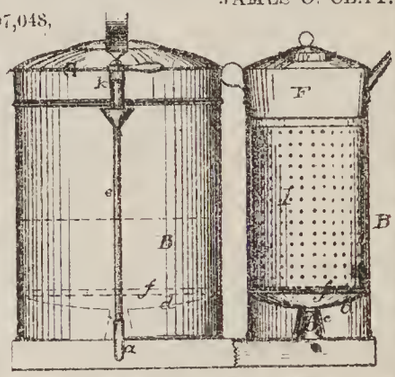
97,037. G. A. BUCHHOLZ.
MANUFACTURE, AND MEANS OF ASSORTING SEMOLINA AND FLOUR.



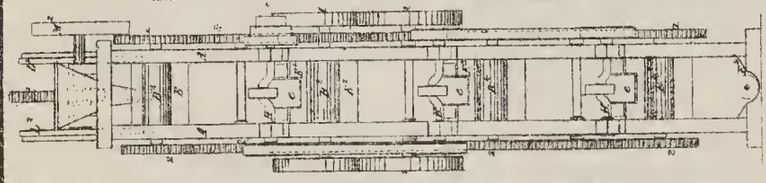
G. E. CALKINS. WASH-BOILER.
97,042.



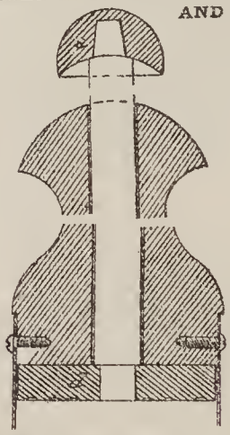
COOKING-APPARATUS.
JAMES O. CLAY.
97,048.



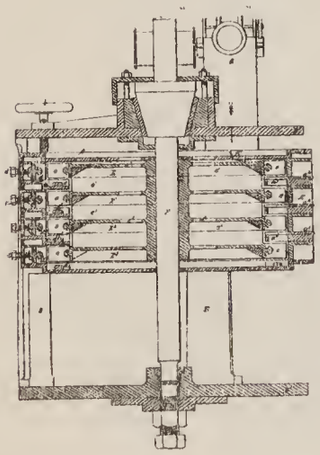
97,038. G. A. BUCHHOLZ.
MACHINERY FOR MANUFACTURING SEMOLINA AND FLOUR.



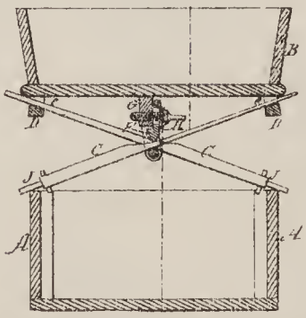
97,049. NATHAN CLOUGH.
COMBINED BUTTER-CUTTER AND STAMP.



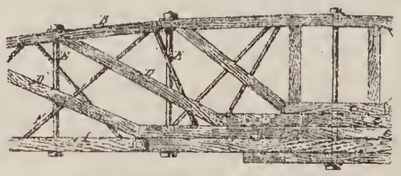
97,039. HULLING-MACHINES.
G. A. BUCHHOLZ.



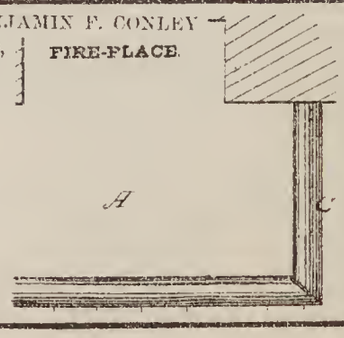
97,043. WAGON-SEAT SPRING.
CYRUS C. CARTER.



97,044. H. W. CASS. DRAWBRIDGE.



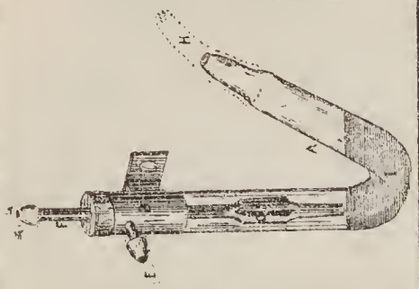
BENJAMIN F. CONLEY
97,050. FIRE-PLACE.



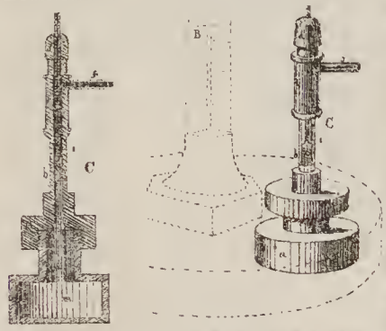
97,040. MARTIN BUCK
BLIND-MORTISING MACHINES.

97,045. ALFRED H. CASTLE.
COMPOUND FOR INSULATING.

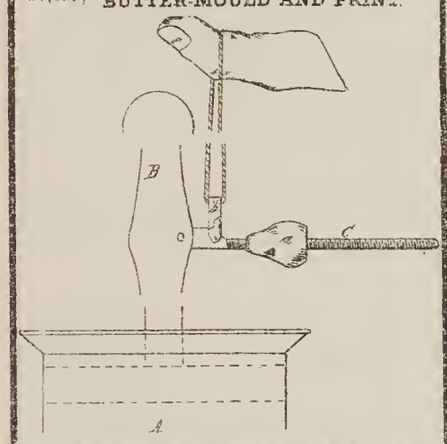
97,051. JOHN B. COOLIDGE.
GAS-REGULATOR FOR NITROUS-OXIDE APPARATUS.



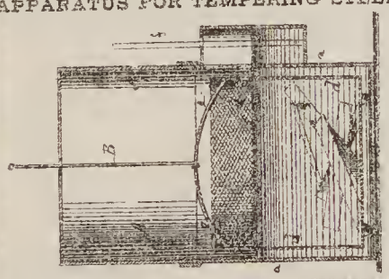
97,052. JOHN B. COOLIDGE.
MERCURIAL REGULATOR FOR VULCANIZING AND OTHER HEATERS.



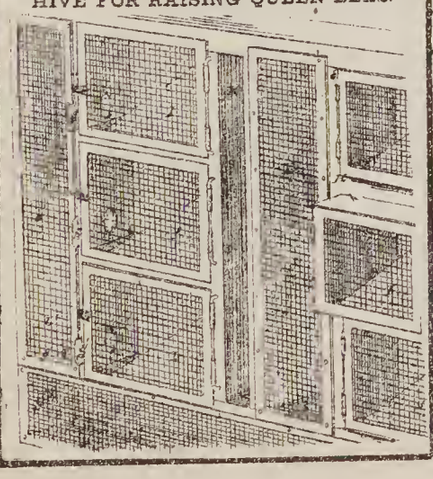
97,053. JAMES S. CORYA.
BUTTER-MOULD AND PRINT.



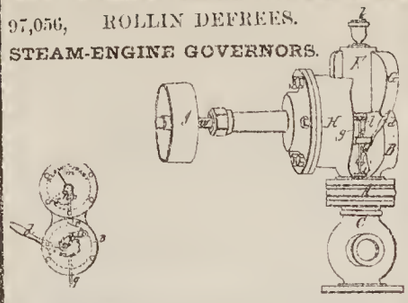
97,054. C. B. COTTRELL.
APPARATUS FOR TEMPERING STEEL.



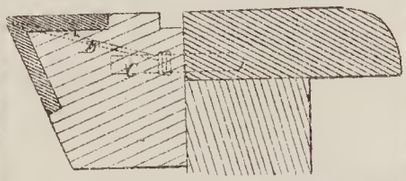
97,055. JEWELL DAVIS
HIVE FOR RAISING QUEEN BEES.



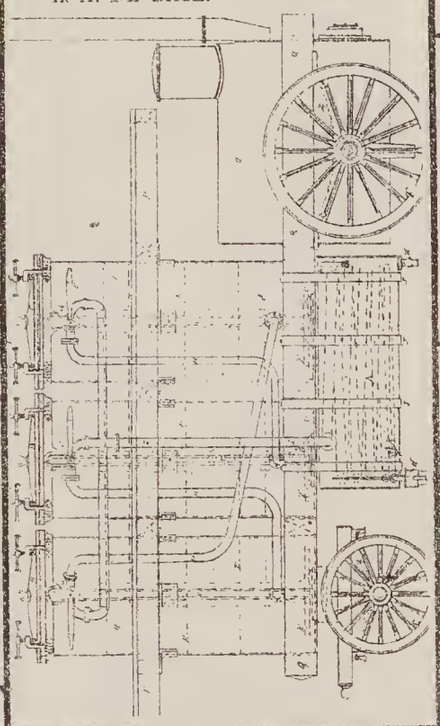
97,056. ROLLIN DEFREES.
STEAM-ENGINE GOVERNORS.



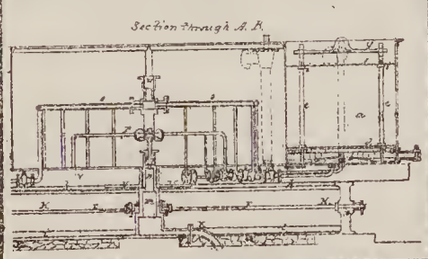
MATHEW DELANY.
97,057 BILLIARD-TABLE CUSHIONS.



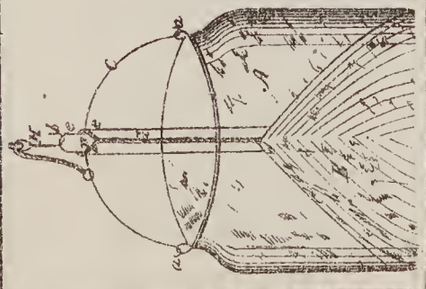
97,058. L. A. DE LIME. PORTABLE STILL.



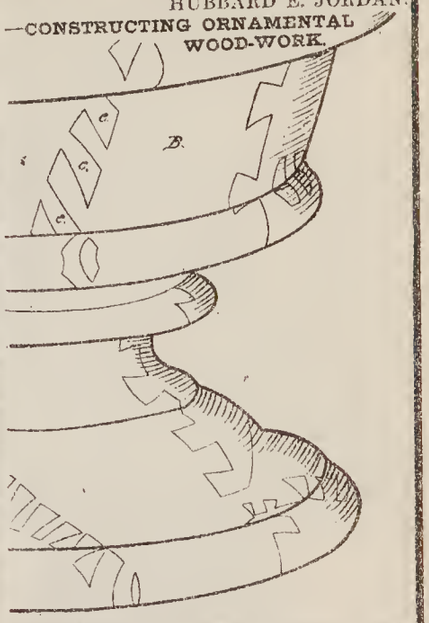
97,059. L. A. DE LIME.
APPARATUS FOR OBTAINING EXTRACTIVE MATTERS FROM SUGAR-CANE AND OTHER MATERIAL



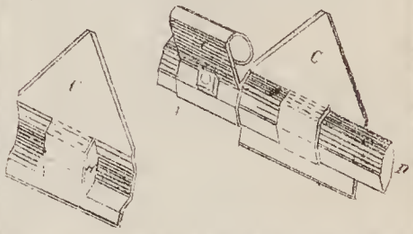
97,061. NAPOLEON B. DIXON.
MYRON W. SPRAGUE.
BAGS FOR GATHERING FRUIT.



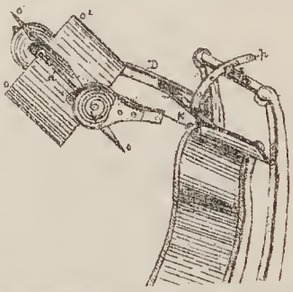
97,060. JOSEPH DILL.
HUBBARD E. JORDAN.
—CONSTRUCTING ORNAMENTAL WOOD-WORK.



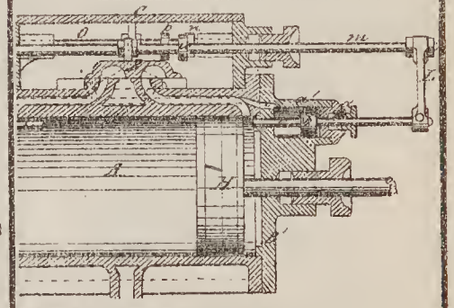
G. L. DU LANEY.
97,062. HARVESTER-CUTTERS.



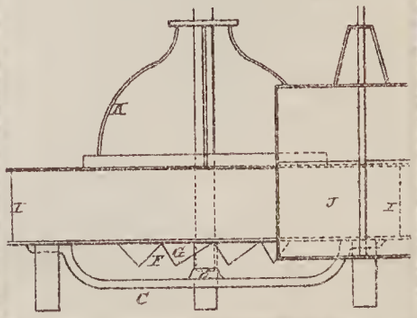
97,063. A. DYSON. CHAIR AND FAN.



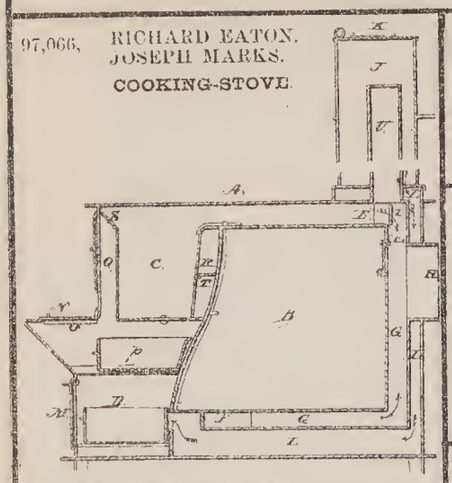
THOMAS DYSON.
GEORGE SMITH.
97,064. STEAM-ENGINE VALVE-GEAR.



ALBERT A. EASTON.
97,065. ARNOLD J. HARRINGTON.
WATER-WHEELS.

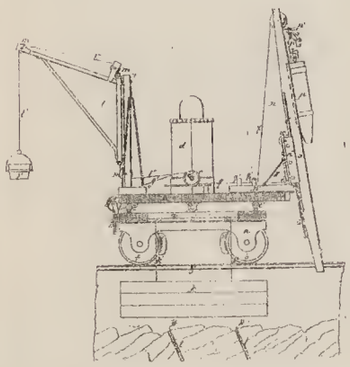


97,066, RICHARD EATON. JOSEPH MARKS. COOKING-STOVE.

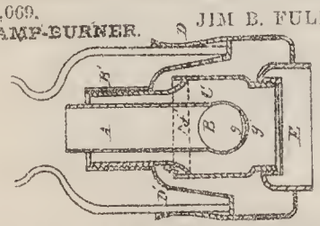


97,067, W. A. ELAM. BEE-HIVES.

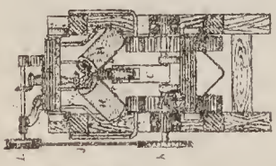
97,068, WM. H. ELLIOT. EXCAVATING-MACHINE



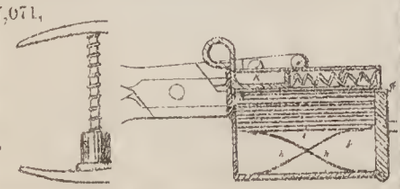
97,069, LAMP-BURNER. JIM B. FULLER.



97,070, JOHN GARDINER. GRAIN-CONVEYERS

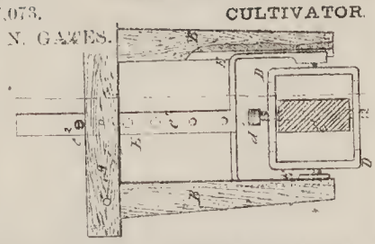


JOHN GARDNER. TICKET-PUNCH. 97,071,

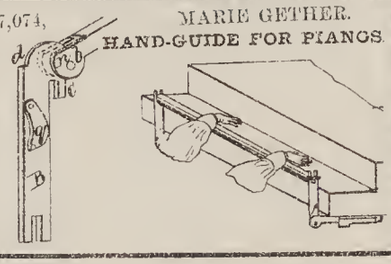


97,072, CHARLES H. GATCHELL. BLACKING-BOX.

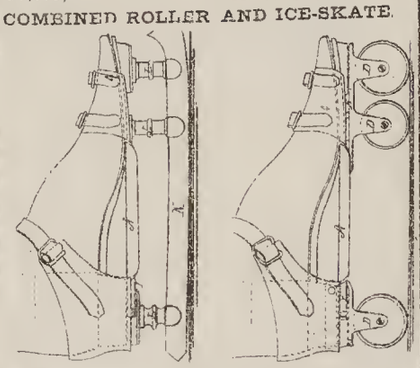
97,073, I. N. GATES. CULTIVATOR.



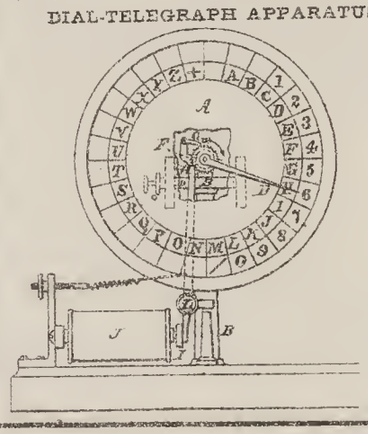
97,074, MARIE GETHER. HAND-GUIDE FOR PIANOS.



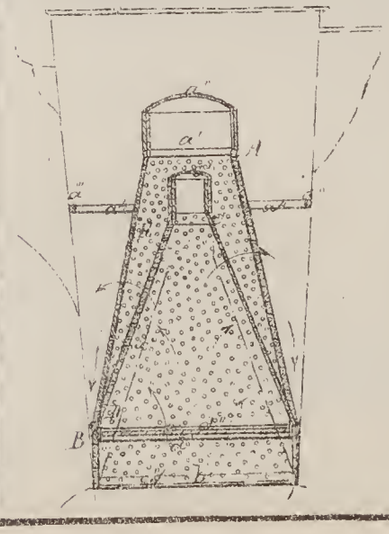
97,075, A. J. GIBSON. COMBINED ROLLER AND ICE-SKATE.



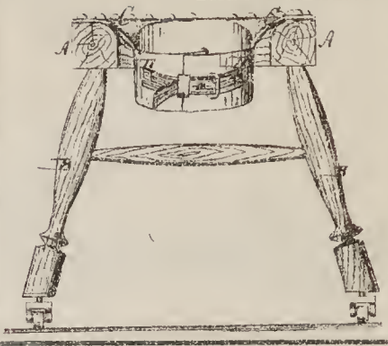
97,076, E. T. GILLILAND. DIAL-TELEGRAPH APPARATUS.



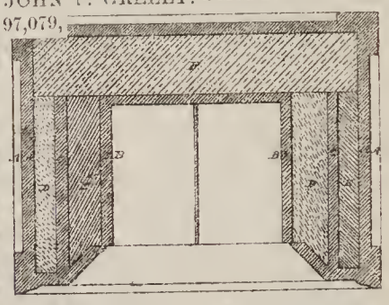
W. L. GILROY. 97,077, DIGESTER FOR COFFEE-POTS.



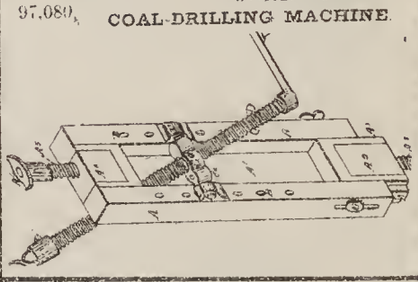
97,078. JOHN C. GOULDING. BABY-WALKERS.



JOHN P. GREELY. FIRE-PROOF SAFES. 97,079,

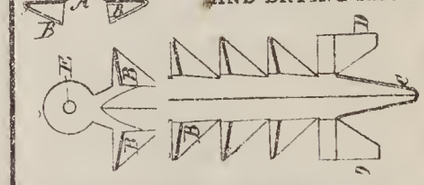


JOHN GRIMM. 97,080, COAL-DRILLING MACHINE.

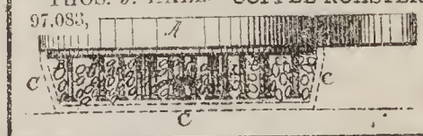


V. M. GRISWOLD. 97,081. CLIP OR PAPER-HOLDER FOR PHOTOGRAPHERS.

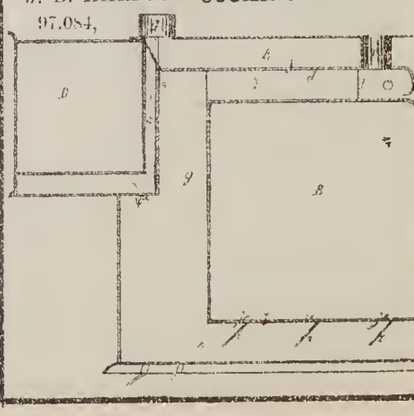
V. M. GRISWOLD. 97,082, PHOTOGRAPHERS' DRIPPING AND DRYING-RACK.



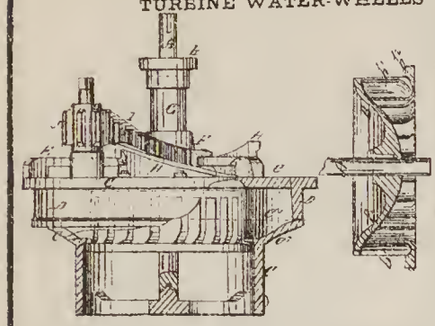
THOS. J. HALL. COFFEE-ROASTER. 97,083,



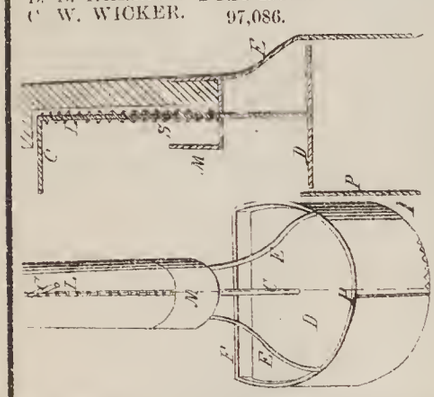
J. D. HARDEN. COOKING-STOVE. 97,084,



97,085. A. M. HARDING.
TURBINE WATER-WHEELS



B. B. HERRICK
C. W. WICKER.
POST-HOLE DIGGERS.
97,086.

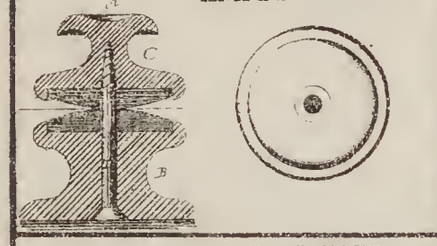


97,087, FRANK N. HOPKINS.
COMPOSITION-FUEL.

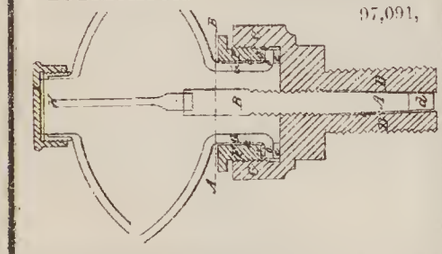
97,088, FRANK N. HOPKINS.
CONGLOMERATE FOR PAVING, ROOFING, AND SIMILAR PURPOSES.

97,089. FREDERICK HOWER.
WHOOPING-COUGH PLASTER.

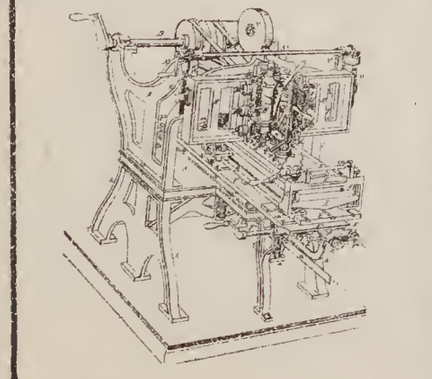
97,090. W. H. HOWLAND.
KNIFE-SHARPENER.



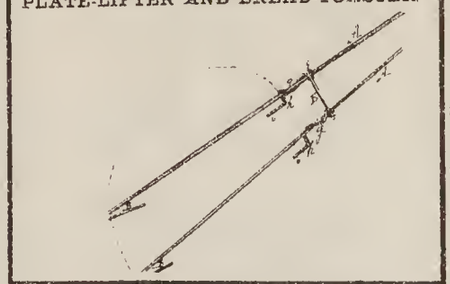
LUBRICATOR. JONA. J. HOYT.
97,091.



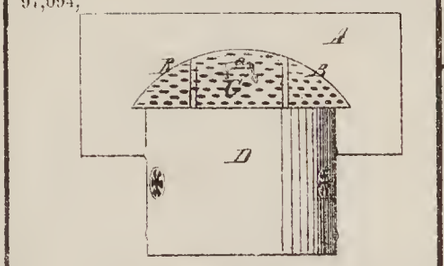
97,092, PANELLING-MACHINE.
NICHOLAS JENKINS.



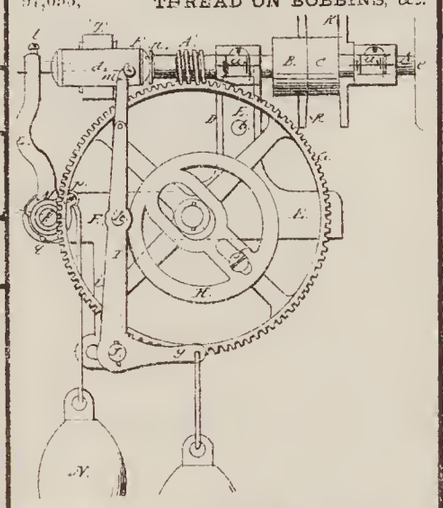
97,093, T. D. KEITH.
PLATE-LIFTER AND BREAD-TOASTER.



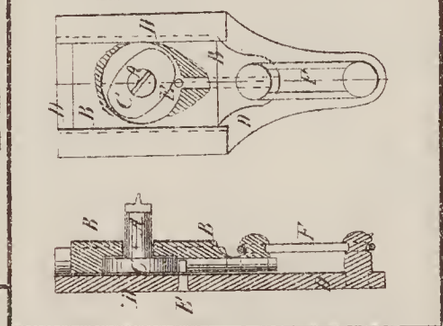
PHILIP KLOTZ.
97,094, FIRE-PLACE STOVES.



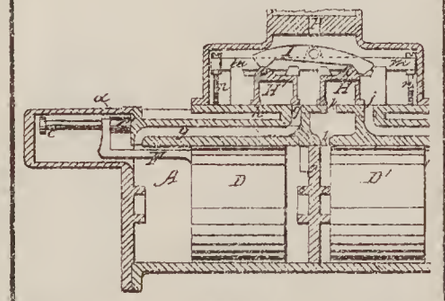
LUCIUS J. KNOWLES.
MACHINES FOR WINDING THREAD ON BOBBINS, &c.
97,095,



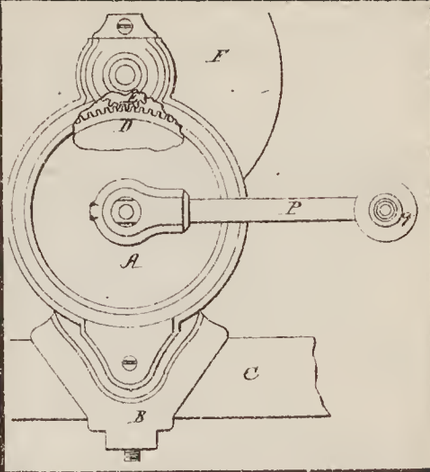
RAMSEY LAWSON.
97,096. LATHE FOR TURNING OVALS.



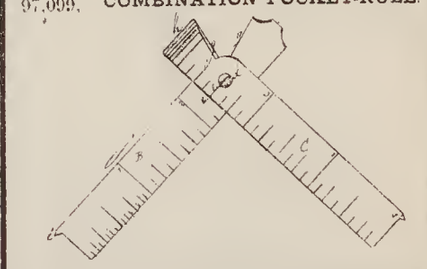
HENRY B. LEACH.
97,097, FLUID-METERS.



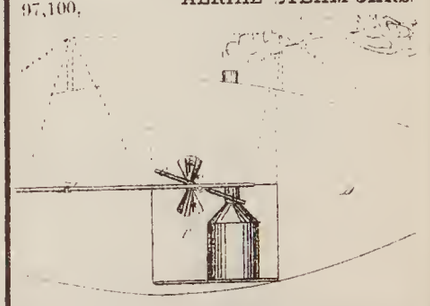
THOS. LORING
97,098. GRINDSTONES.



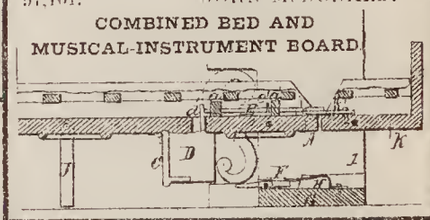
JOEL MANCHESTER.
97,099. COMBINATION POCKET-RULE.



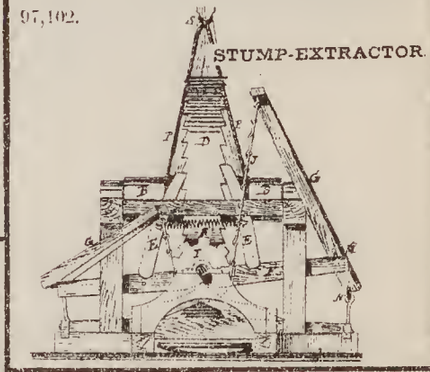
FREDERICK MARRIOTT.
97,100. AERIAL STEAM-CARS.



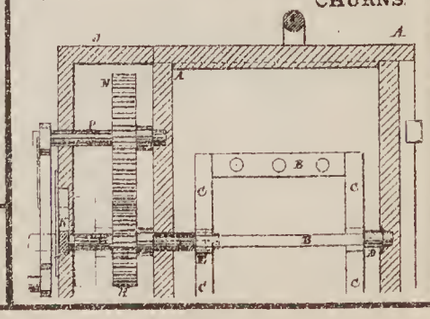
97,101. JOHN McDONALD.
COMBINED BED AND MUSICAL-INSTRUMENT BOARD.



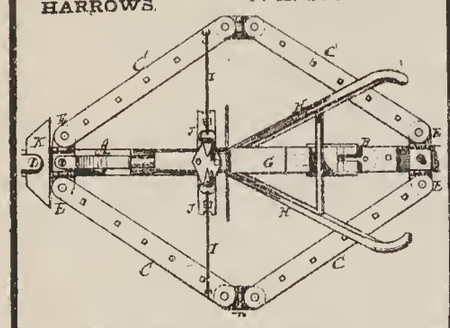
ALEXANDER McLEOD.
97,102. STUMP-EXTRACTOR.



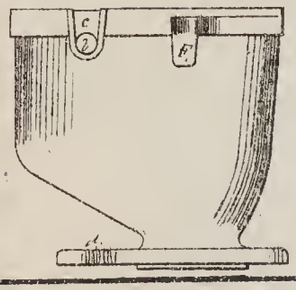
97,103, FRIEDRICH MILLER.
CHURNS.



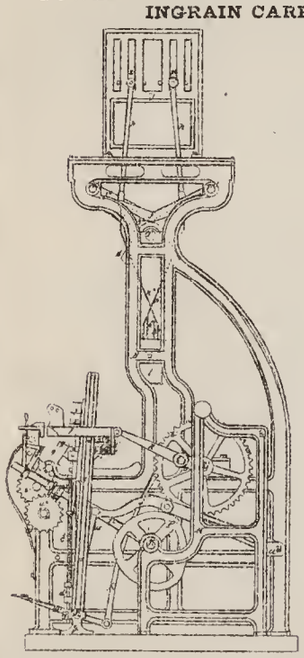
97,104. JOHN H. MILLER. F. A. PICKERING.
HARROWS.



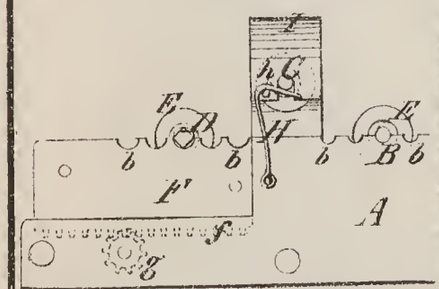
97,105, GEO. R. MOORE.
WATER-CLOSETS.



97,106, WILLIAM MURKLAND. JOHN W. MURKLAND.
POWER-LOOM FOR WEAVING INGRAIN CARPETS.

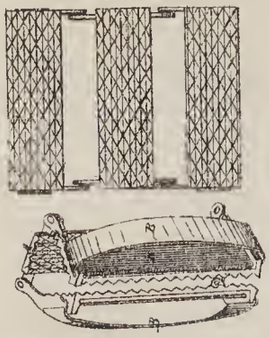


97,107, JOHN NAUGLE.
TIRE-BENDING MACHINE.

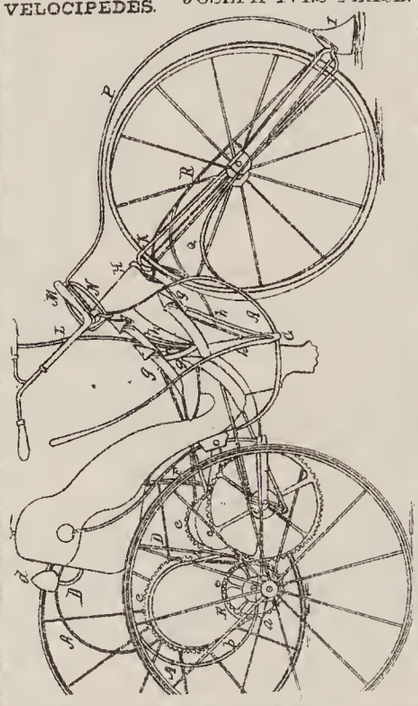


97,108, CHARLES M. O'HARA.
COVERING FOR STEAM-BOILERS.

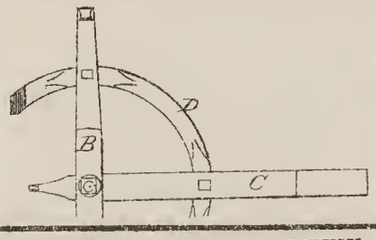
97,109. CHARLES M. O'HARA
HAND CORN-SHELLER.



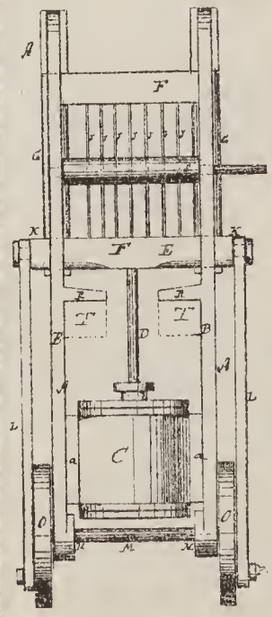
97,110, JOSEPH IVES PEASE.
VELOCIPEDES.



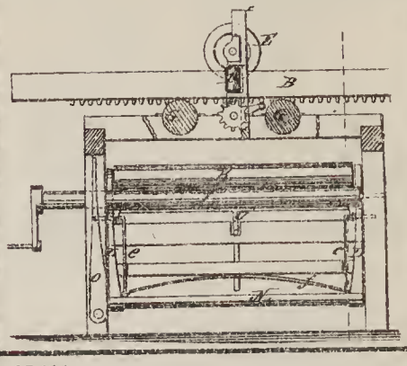
97,111, J. A. PECK.
FIFTH-WHEEL FOR CARRIAGES.



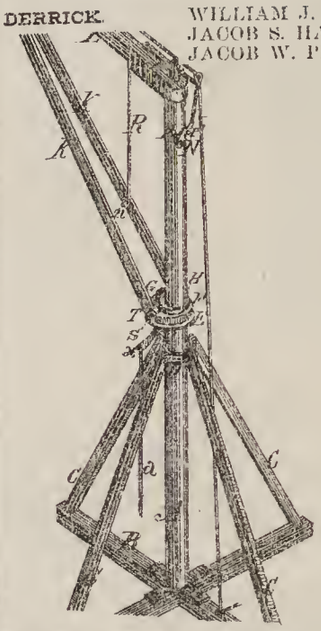
97,112, WM. PENNY.
SAW-MILLS.



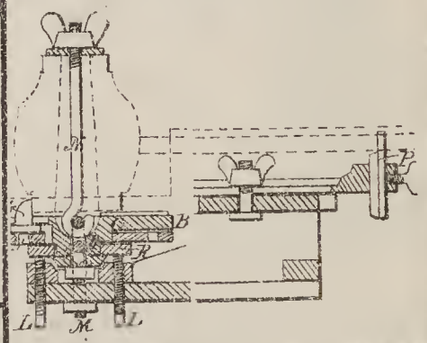
97,113, DAVID PIERCE.
BENDING-MACHINES.



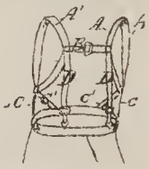
97,114, WILLIAM J. HANGER. JACOB S. HANGER. JACOB W. PIPER.
DERRICK.



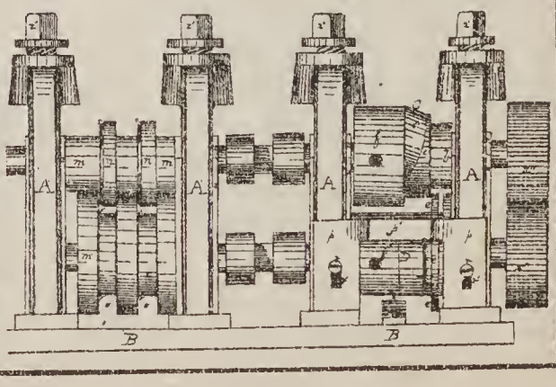
97,115, THOMAS PLACE.
MACHINE FOR MAKING WHEELS.



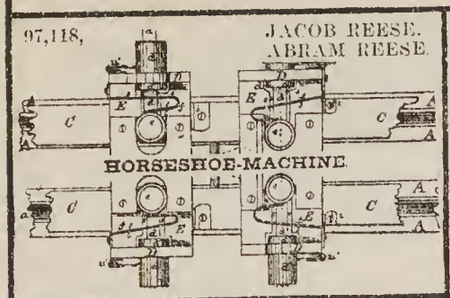
97,116, THOMAS O. POTTER.
SUSPENDERS.



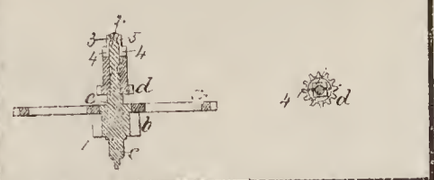
97,117. ABRAM REESE.
MACHINE FOR ROLLING BARS FOR HORSESHOES.



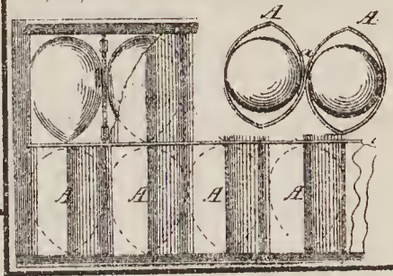
97,118, JACOB REESE.
ABRAM REESE.
HORSESHOE-MACHINE.



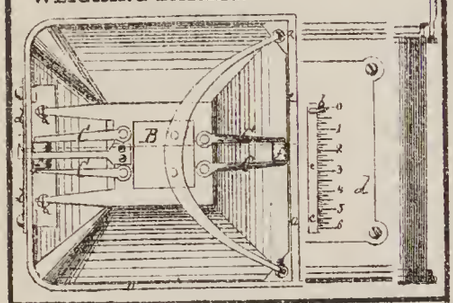
97,123, ERNEST SANDOZ.
SECURING THE CANNON-PINIONS OF WATCHES.



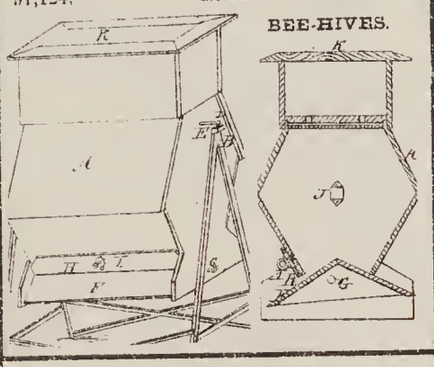
97,129, AUSTIN S. SMITH.
DEVICE FOR PACKING EGGS FOR TRANSPORTATION.



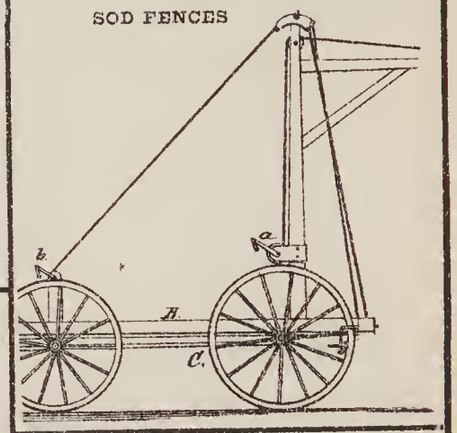
C. RENNE.
F. LANDENBERGER. 97,119.
WEIGHING-BASKET.



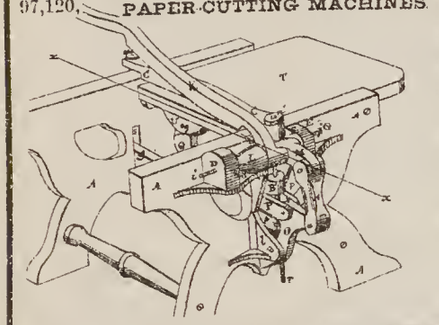
97,124, RILEY SANFORD.
BEE-HIVES.



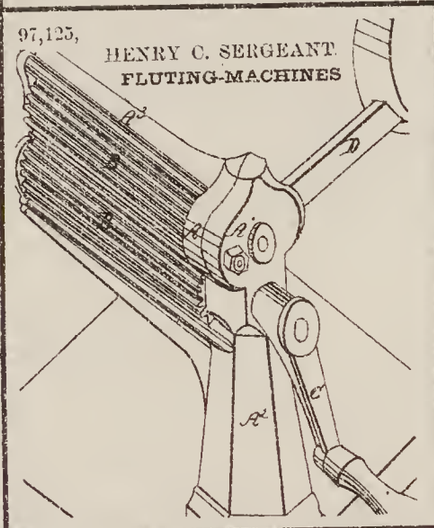
97,130. CYRUS W. SMITH.
APPARATUS FOR BUILDING SOD FENCES



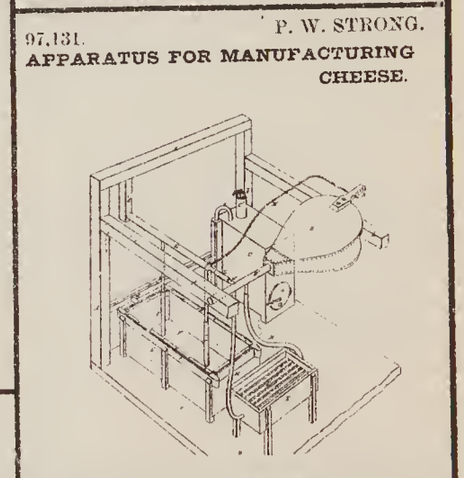
97,120, T. C. ROBINSON.
PAPER-CUTTING MACHINES.



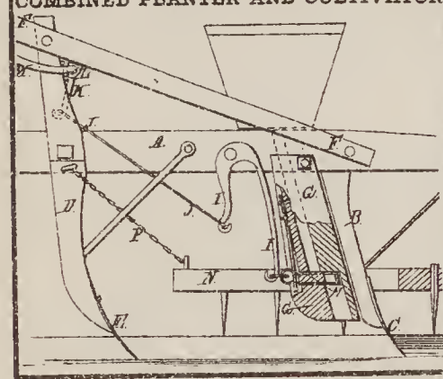
97,125, HENRY C. SERGEANT.
FLUTING-MACHINES



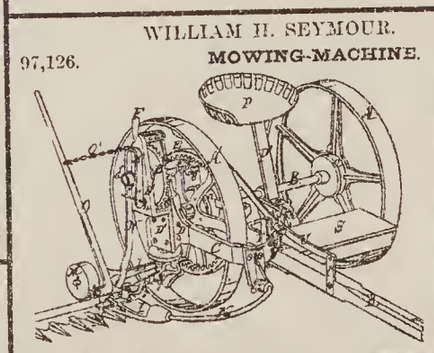
97,131. P. W. STRONG.
APPARATUS FOR MANUFACTURING CHEESE.



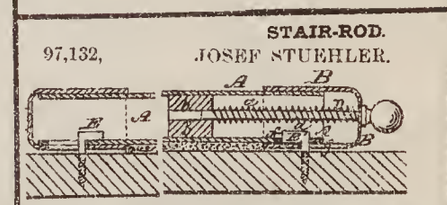
97,121, JOHN A. ROCKWOOD.
COMBINED PLANTER AND CULTIVATOR



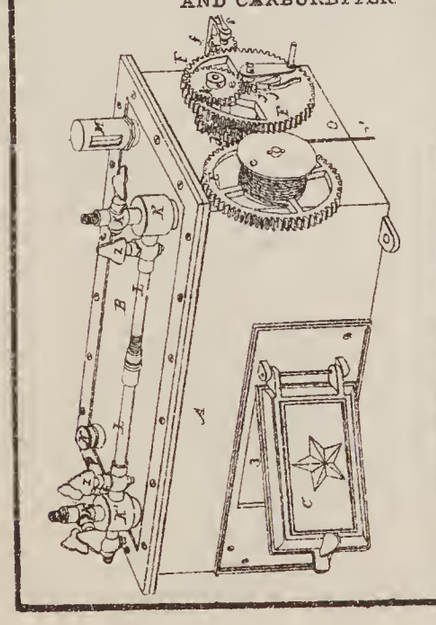
WILLIAM H. SEYMOUR.
97,126. MOWING-MACHINE.



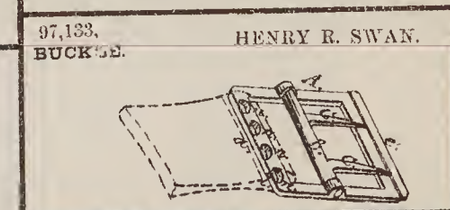
STAIR-ROD.
97,132, JOSEF STUEHLER.



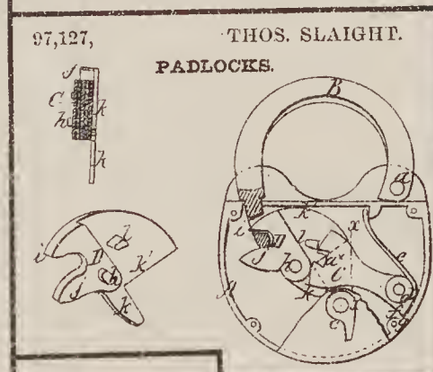
MARCUS A. ROOT.
JACOB D. CUSTER.
97,122. PORTABLE GAS-APPARATUS AND CARBURETTER.



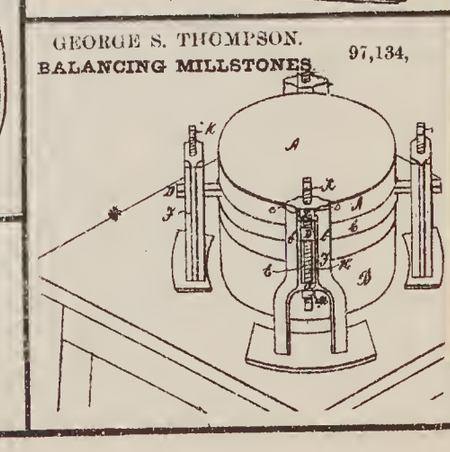
97,133, HENRY R. SWAN.
BUCKLE.



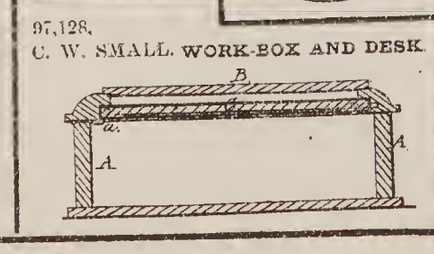
97,127, THOS. SLAIGHT.
PADLOCKS.



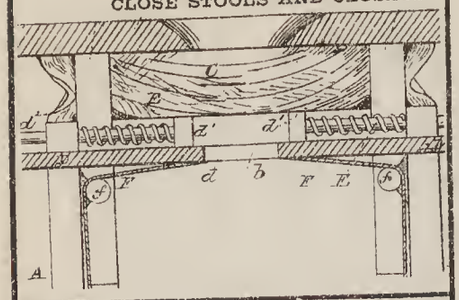
GEORGE S. THOMPSON. 97,134,
BALANCING MILLSTONES.



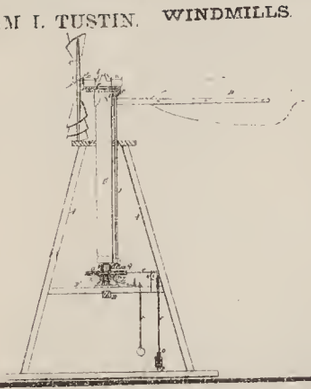
97,128.
C. W. SMALL. WORK-BOX AND DESK.



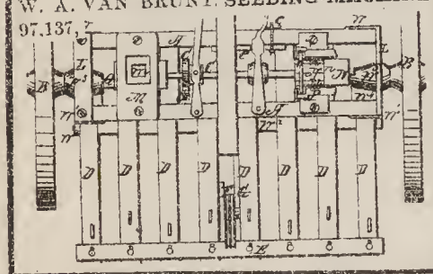
97,135, CHARLES TRUE.
CLOSE STOOLS AND CLOSETS.



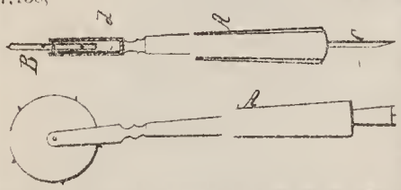
WILLIAM I. TUSTIN. WINDMILLS.
97,136.



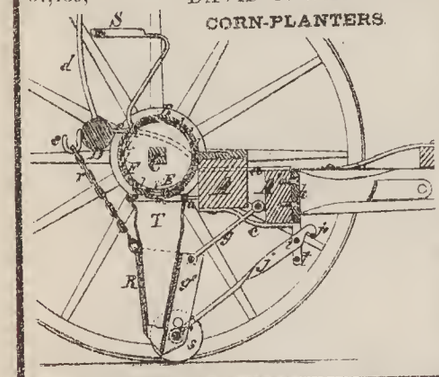
W. A. VAN BRUNT. SEEDING-MACHINE
97,137.



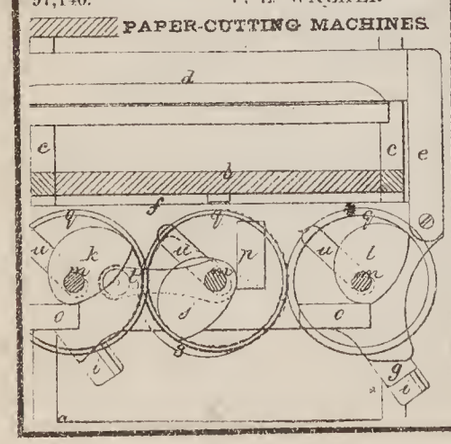
HERMANN VON SCHLAGINTWEIT-SAKÜNLÜNSKI.
97,138, REVOLVING SCALES.



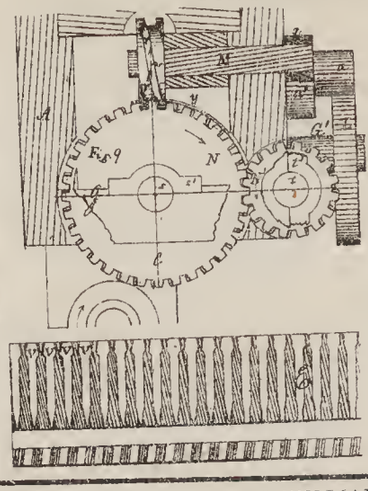
97,139, DAVID F. WAGNER.
CORN-PLANTERS.



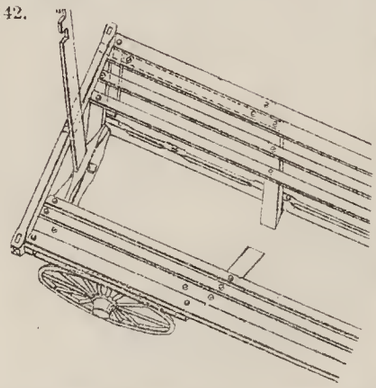
97,140. F. L. WALKER
PAPER-CUTTING MACHINES.



97,141. WILLIAM WICKERSHAM
MACHINE FOR MAKING NAILS FOR HORSESHOES.



WAGON-LADDER. ISAAC WILLIAMS
97,142.

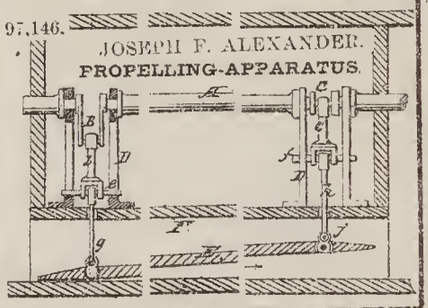


CHARLES ABRESCH.
97,143, PROCESS OF BREWING BEER.

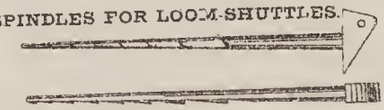
97,144 SUSPENDED.

97,145. REUBEN A. ADAMS.
CURING AND PRESERVING FISH.

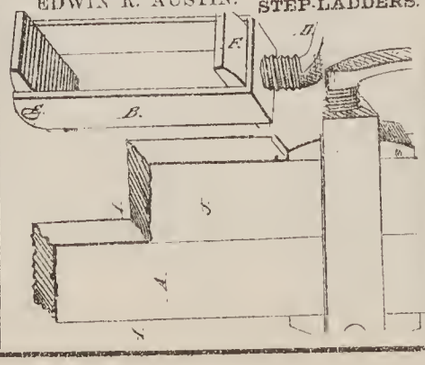
97,146. JOSEPH F. ALEXANDER.
PROPELLING-APPARATUS.



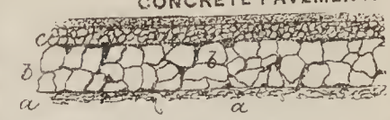
97,147, N. I. ALLEN.
J. C. MOODY.
SPINDLES FOR LOOM-SHUTTLES.



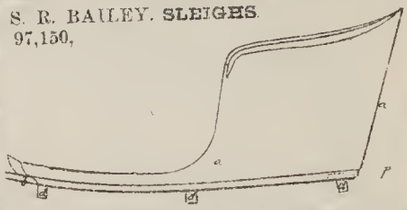
97,148, EDWIN R. AUSTIN. STEP-LADDERS.



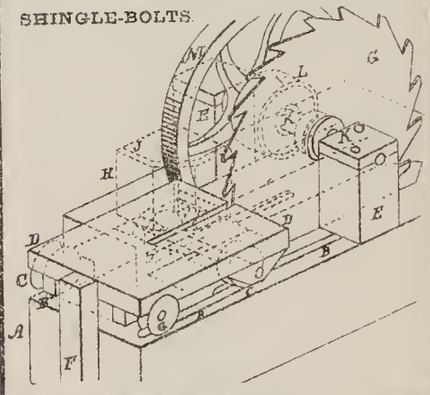
97,149, D. W. BAILEY.
CONCRETE PAVEMENT.



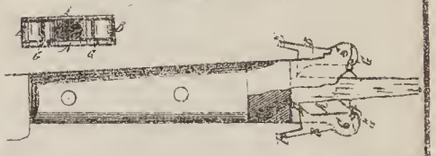
S. R. BAILEY. SLEIGHS.
97,150,



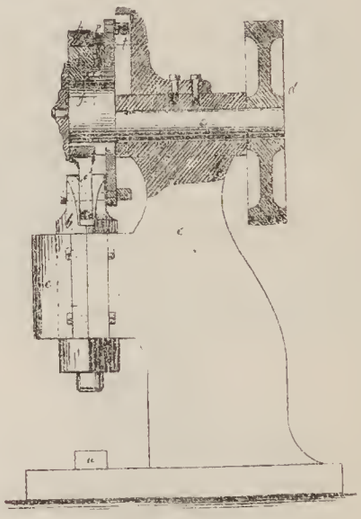
97,151. D. H. BALL.
MACHINE FOR SAWING SHINGLE-BOLTS.

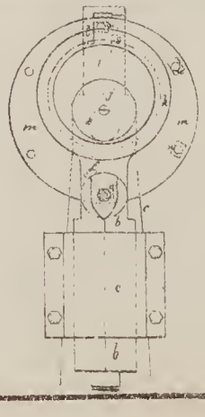


97,152, JAMES BALL.
KNIVES AND FORKS.

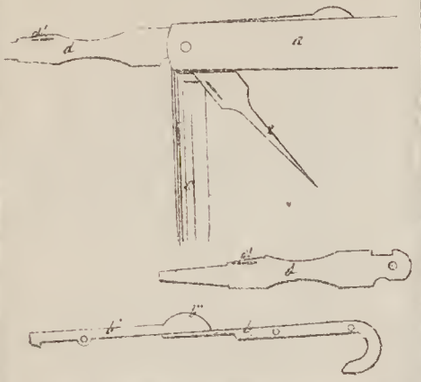


97,153. ROBERT L. BARCLAY.
PROGRESSIVE RECIPROCATING MOTION FOR STAMPING AND OTHER MACHINES.





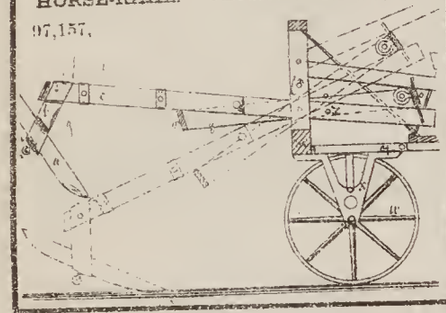
97,154, FRANCIS H. BARNARD. WALTER L. BRACE. POCKET-KNIFE.



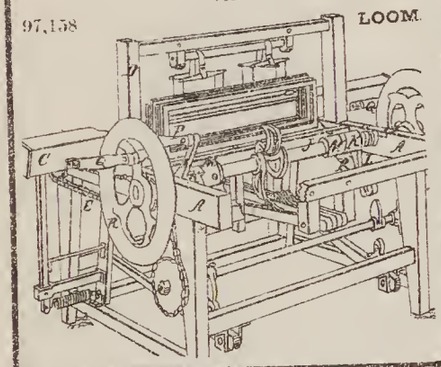
97,155, JOS. B. BIDWELL. CONFECTION FROM RAISINS.

97,156, WILLIAM H. BLAKE. METHOD OF FORMING SLEEVE-BUTTON SHANKS.

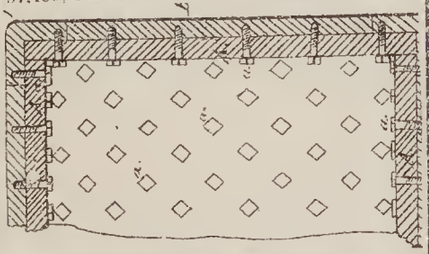
HORSE-RAKE. OLPHA BONNEY, JR. 97,157,



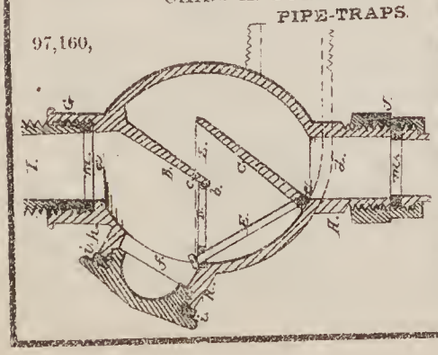
JESSE L. BRANSON. 97,158 LOOM.



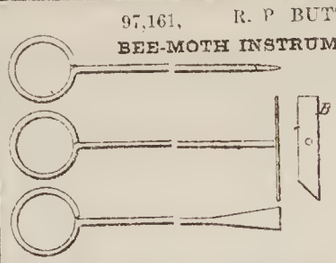
97,159, MARTIN BRIGGS. SAFES.



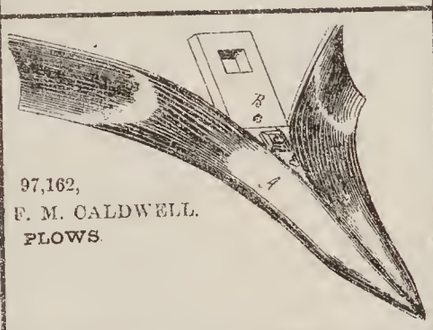
CHAS. H. BURLEIGH. PIPE-TRAPS. 97,160,



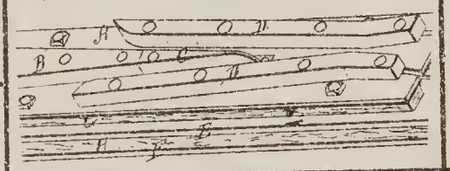
97,161, R. P. BUTTLES BEE-MOTH INSTRUMENTS.



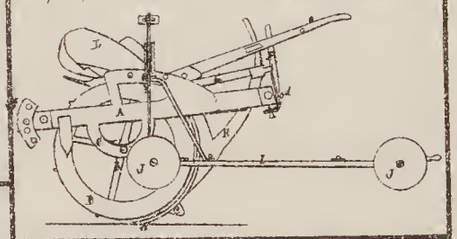
97,162, F. M. CALDWELL. PLOWS.



FREDERICK J. CALHOUN. 97,163, RAILWAY-FROG.

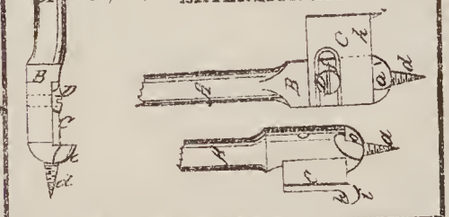


HENRY CARTER. 97,164, DITCHING-MACHINE.

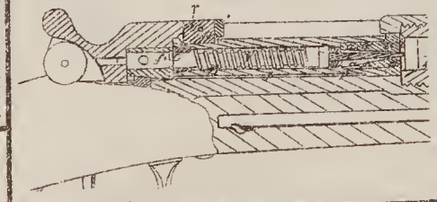


PETER F. CEDERHOLM. 97,165, SYRINGES.

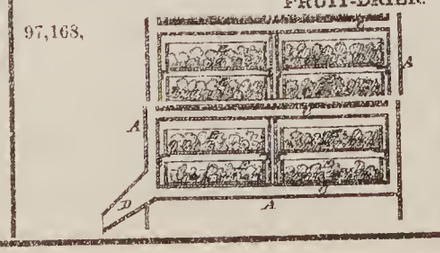
H. P. CHAPMAN. 97,166, EXTENSION-BIT.



97,167, A. A. CHASSEPOT. BREECH-LOADING FIRE-ARMS.

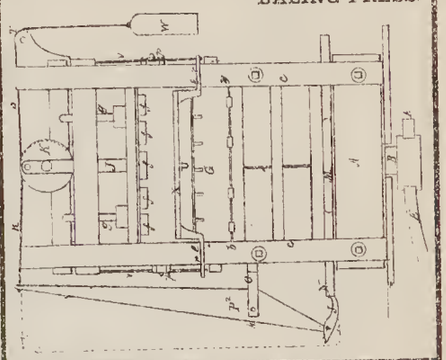


WILLIAM R. CLARK. FRUIT-DRIER. 97,168,

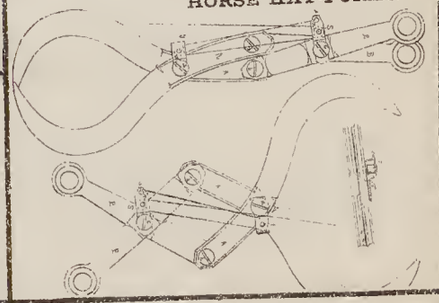


97,169, BENJ. ROWLAND CROASDALE. BAG FOR GUANO, PHOSPHATES, AND OTHER FERTILIZERS.

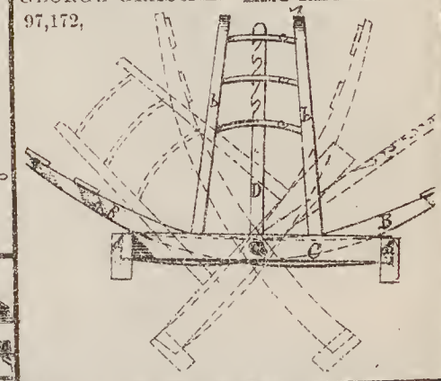
97,170, WILLIAM DEERING. BALING-PRESS.



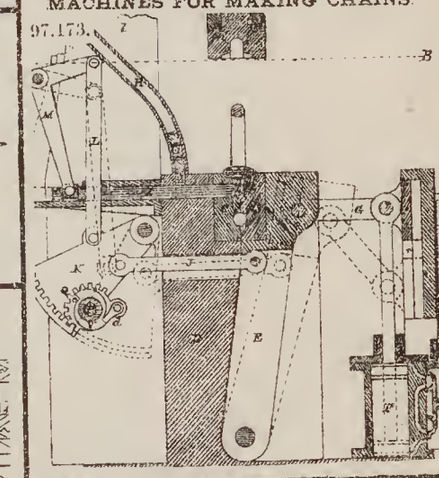
97,171, JOHN J. DE GRUMMOND. HORSE HAY-FORKS.



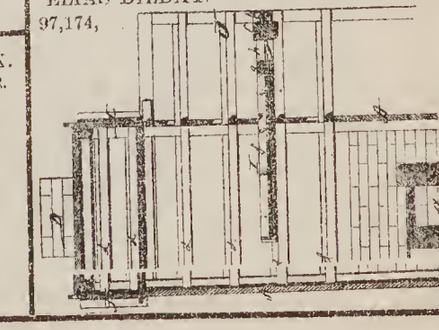
GEORGE DENIS. GEORGE GRASSAL. HAY-RACKS. 97,172,



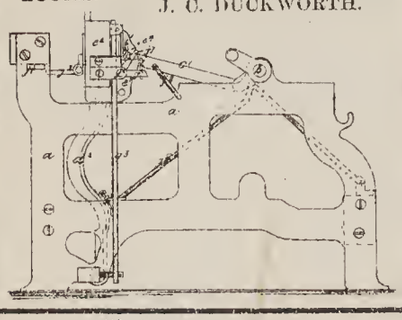
WILLIAM DENNISON. MACHINES FOR MAKING CHAINS. 97,173.

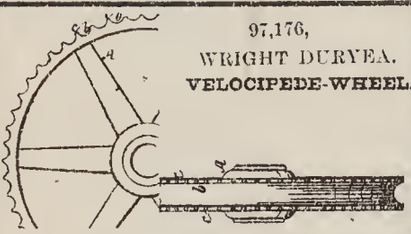


ELIAS DILDAY. FRUIT-DRIER. 97,174,



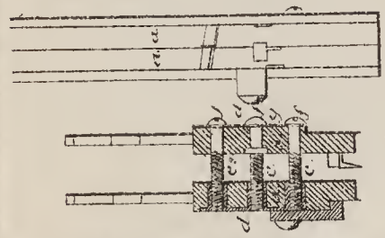
97,175. GEORGE DUCKWORTH. WILLIAM DUCKWORTH. JAMES DUCKWORTH. J. C. DUCKWORTH.
LOOMS.



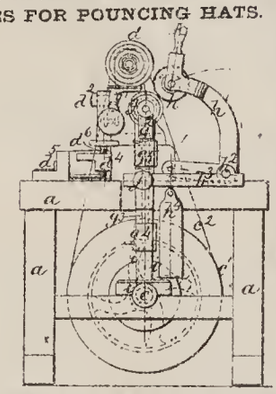


97,176, WRIGHT DURYEA.
VELOCIPEDE-WHEEL.

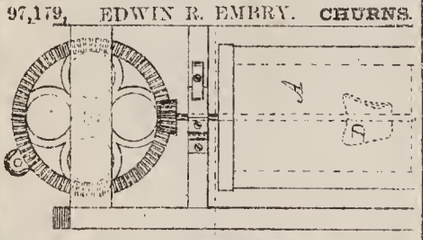
97,177. THEODORE his × mark. DUVAL.
CARPENTERS' GROOVING-PLANE.



97,178, R. EICKEMEYER.
MACHINES FOR POUNCING HATS.

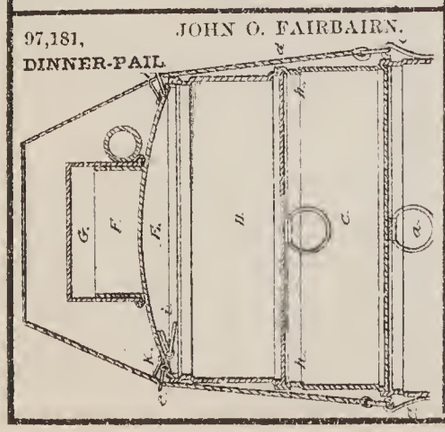


97,179, EDWIN R. EMBRY. **CHURNS.**



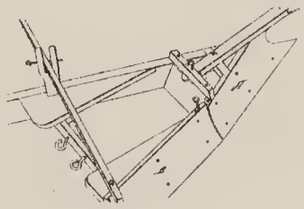
97,180, E. C. EVENS. **LINIMENT.**

97,181, JOHN O. FAIRBAIRN.
DINNER-PAIL.

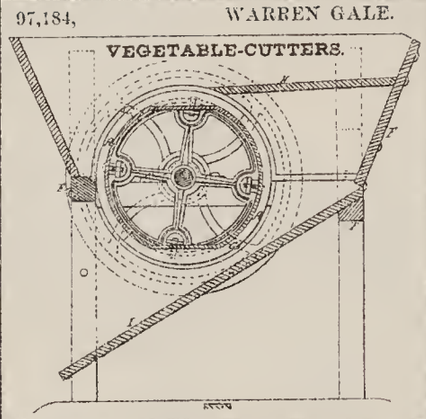


97,182, L. S. FALES.
MODE OF RECOVERING THE SPENT ACID FROM OIL-REFINERIES.

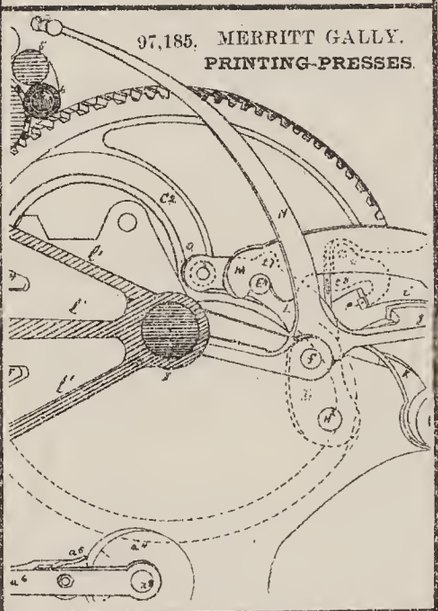
97,183, E. L. FOREMAN.
DITCHER AND GRADER.



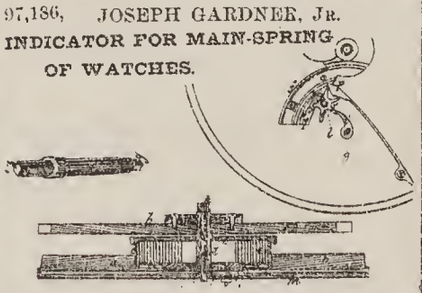
97,184, WARREN GALE.
VEGETABLE-CUTTERS.



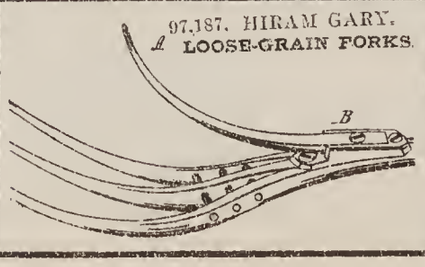
97,185. MERRITT GALLY.
PRINTING-PRESSES.



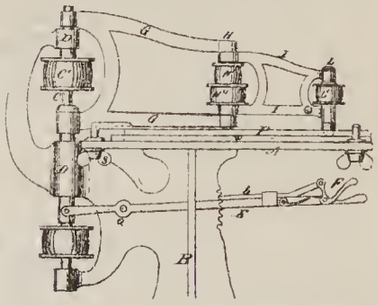
97,186, JOSEPH GARDNER, JR.
INDICATOR FOR MAIN-SPRING OF WATCHES.



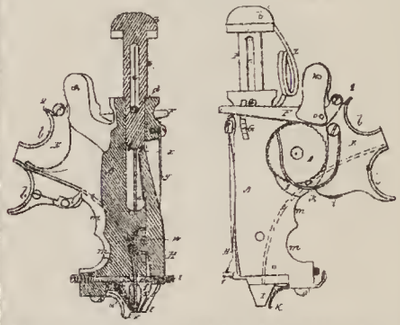
97,187. HIRAM GARY.
LOOSE-GRAIN FORKS.



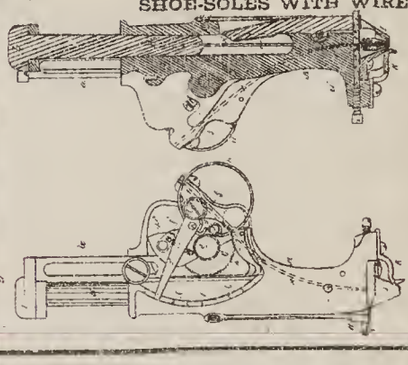
97,189. W. W. GLENTWORTH, M. D. WM. H. GANDEY.
PAPER FELT OR WADDING.



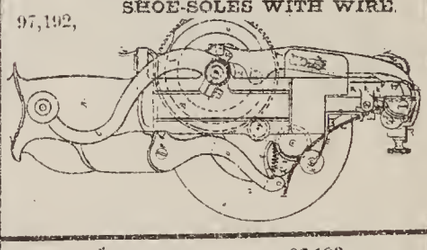
LOUIS GODDU.
97,190, **MACHINES FOR NAILING SHOE-SOLES WITH WIRE.**



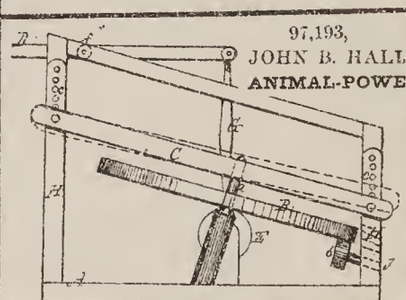
LOUIS GODDU.
97,191, **MACHINES FOR NAILING SHOE-SOLES WITH WIRE.**



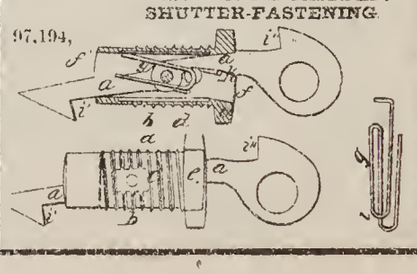
LOUIS GODDU.
MACHINES FOR NAILING SHOE-SOLES WITH WIRE.
97,192,



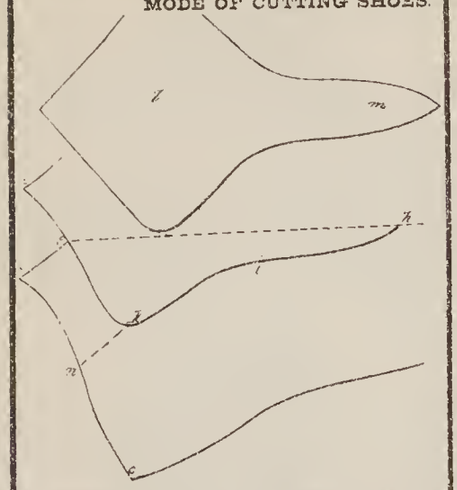
97,193, JOHN B. HALL.
ANIMAL-POWER.



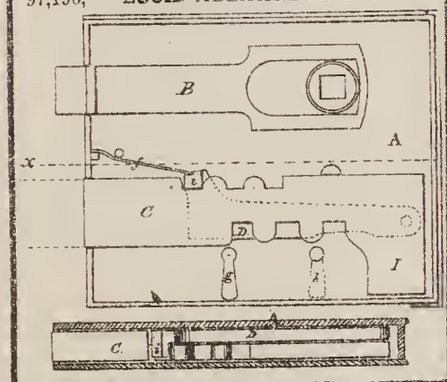
RANDOLPH HAYDEN.
SHUTTER-FASTENING.
97,194,



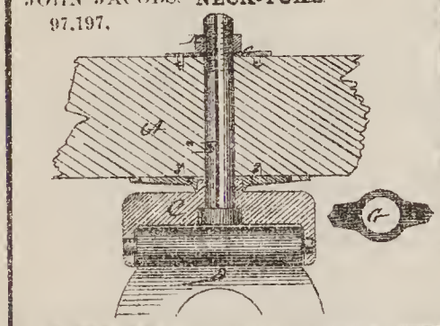
97,195, HORACE P. HAYWARD.
MODE OF CUTTING SHOES.



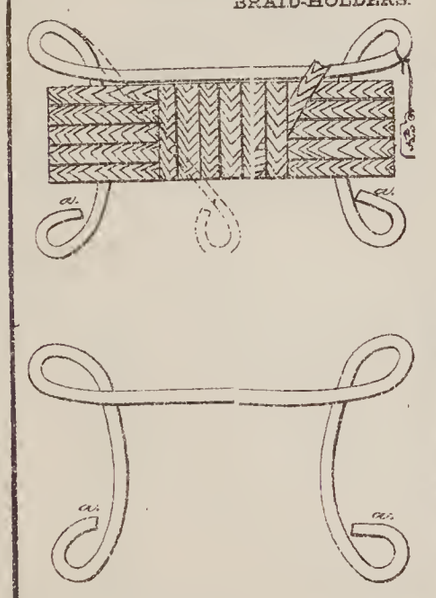
97,196, **LOCK.** ALEXANDER INGLIS.



JOHN JACOBS. **NECK-YOKE.**
97,197.

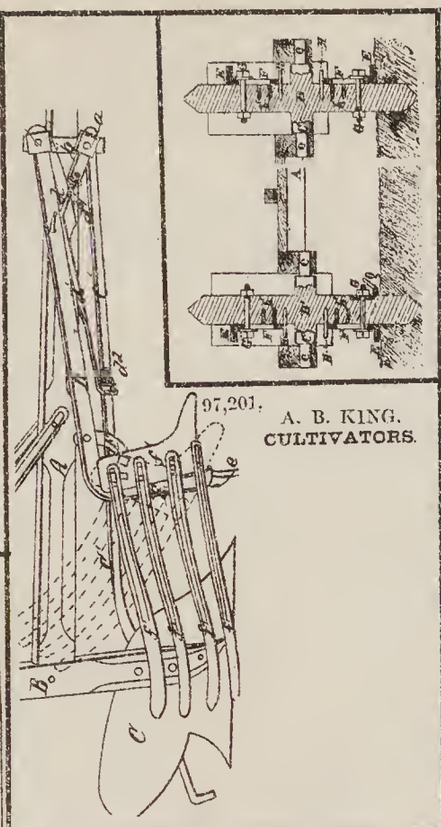


97,198, ALVA F. JENNINGS.
BRAID-HOLDERS.



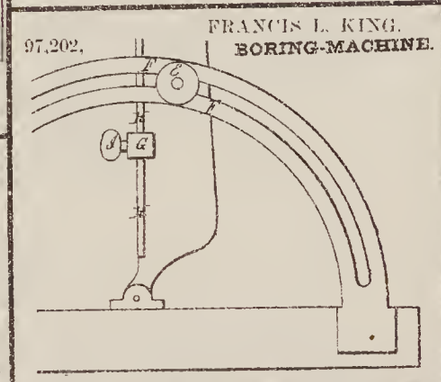
97,199. SUSPENDED.

DANIEL KEETHLER
97,200, **CORN-PLANTERS.**

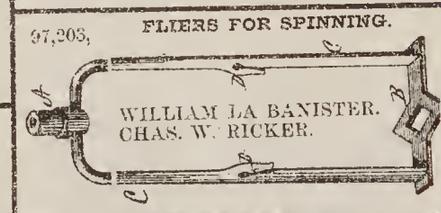


97,201. A. B. KING.
CULTIVATORS.

97,202, FRANCIS L. KING.
BORING-MACHINE.

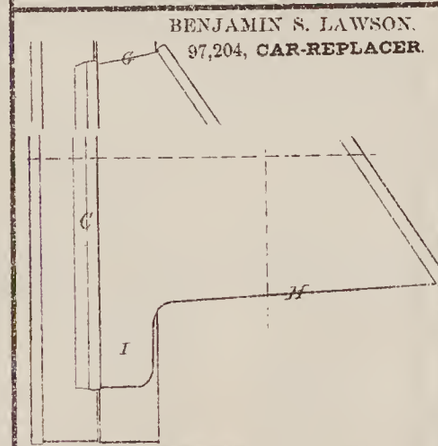


97,203, **FLIERS FOR SPINNING.**

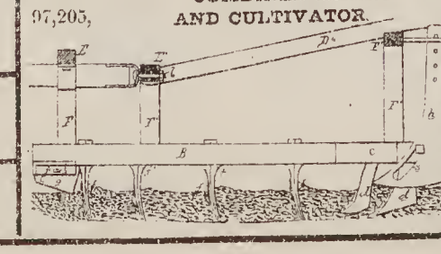


WILLIAM LA BANISTER.
CHAS. W. RICKER.

BENJAMIN S. LAWSON.
97,204, **CAR-REPLACER.**

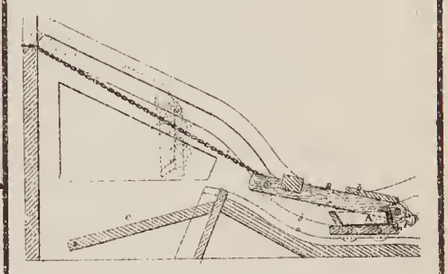


JOHN LERCH. **COMBINED HARROW AND CULTIVATOR.**
97,205,



97,206, FRANK MARQUARD.
COMPOSITION BOOT AND SHOE-HEEL.

97,207, GEORGE MARTZ.
COAL-CAR AND TRACK.



CAR-COUPLING. CHARLES MAUS.
97,208,

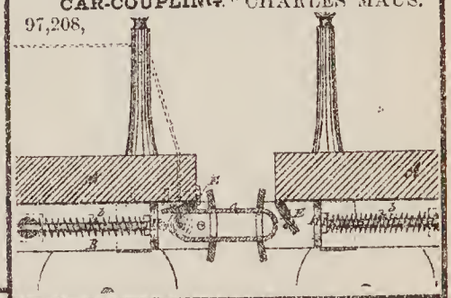
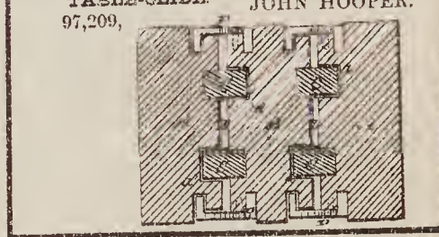
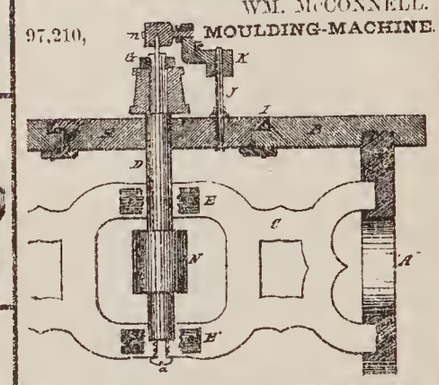


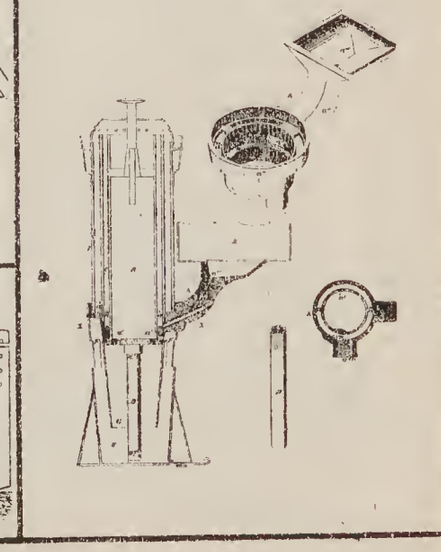
TABLE-SLIDE. SEYMOUR MAY.
JOHN HOOPER.
97,209,



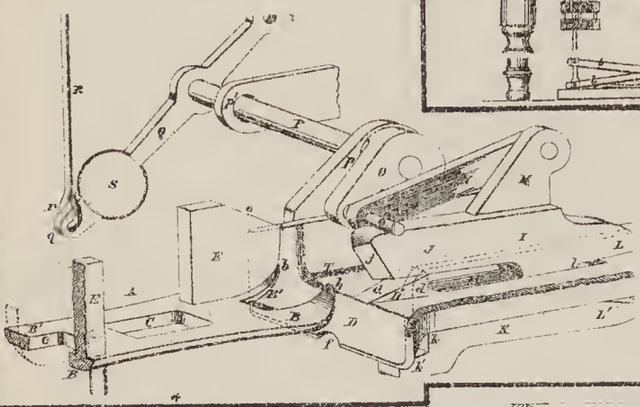
WM. McCONNELL.
97,210, **MOULDING-MACHINE.**



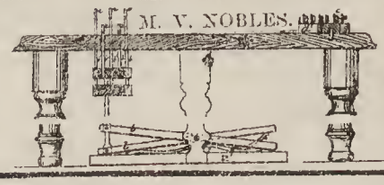
LEWIS MICHAELS.
97,211, **LOCOMOTIVE HEAD-LIGHTS.**

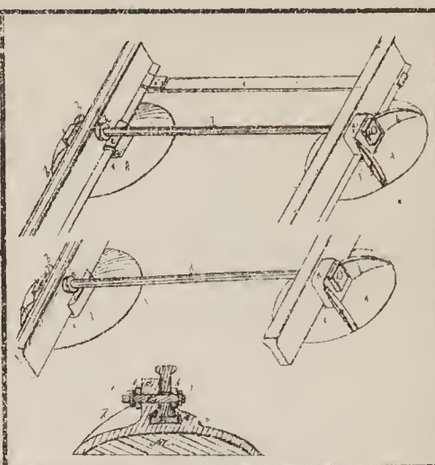


97,212. J. T. MIDDLETON.
CAR-COUPLING.

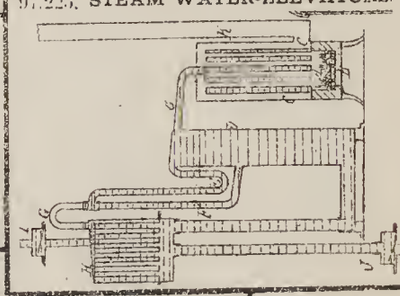


DEVICES FOR FORMING THE SHED IN WEAVING WIRE.
97,218 M. V. NOBLES.

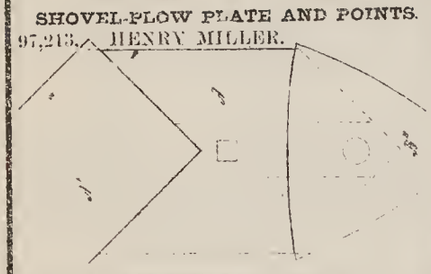




W. E. PRALL.
97,225. STEAM WATER-ELEVATORS.



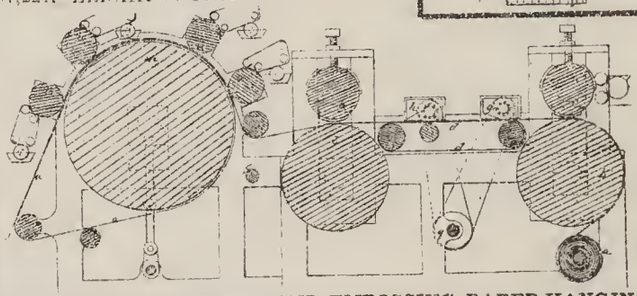
SHOVEL-PLOW PLATE AND POINTS.
97,213. HENRY MILLER.



97,219. AARON B. NOTT.
KITCHEN-SINKS.

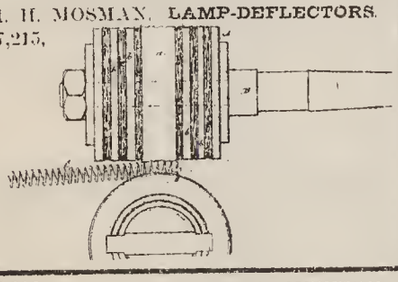
JAMES MONTGOMERY.
97,214. INHALING-APPARATUS.

97,221. ELISHA S. ORMSBY.



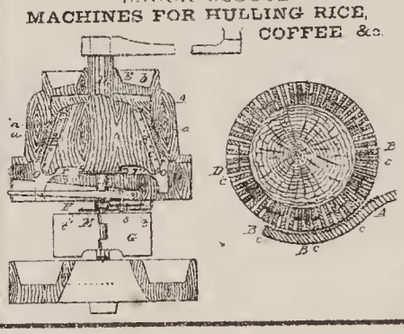
MACHINE FOR PRINTING AND EMBOSSING PAPER-HANGINGS.

BUFFERS FOR INSERTING COILED WIRE AROUND THE EDGES OF
M. H. MOSMAN. LAMP-DEFLECTORS.
97,215.

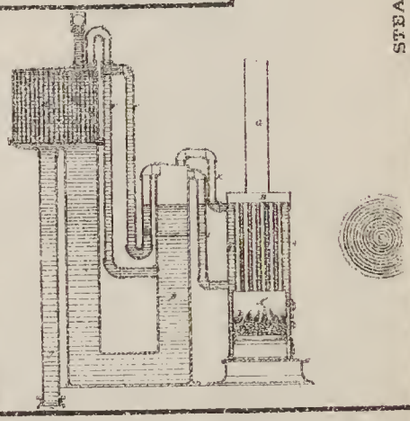


97,220. NELSON ORCUTT.
MANUFACTURE OF SOAP.

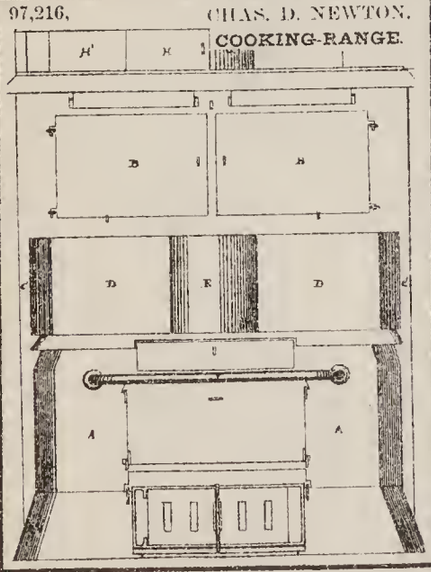
97,222. ENOCH OSGOOD.
MACHINES FOR HULLING RICE, COFFEE &c.



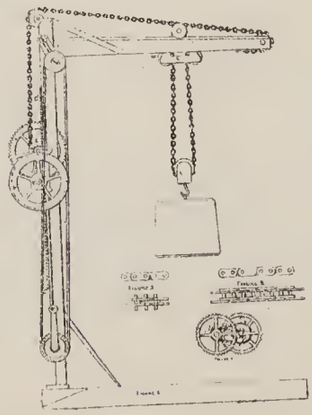
97,226. W. E. PRALL.
STEAM WATER-ELEVATORS.



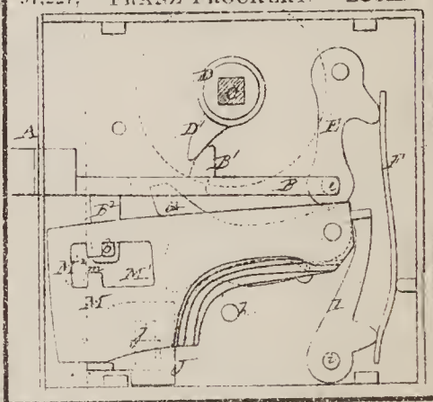
97,216. CHAS. D. NEWTON.
COOKING-RANGE.



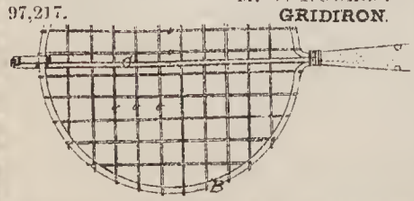
97,223. ENOCH OSGOOD.
HOISTING-APPARATUS AND DERRICKS.



97,227. FRANZ PROCKERT. LOCK.

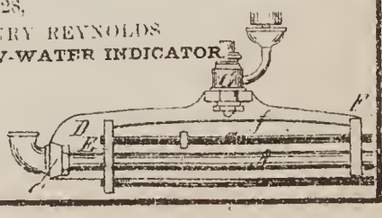


M. V. NOBLES.
97,217. GRIDIRON.

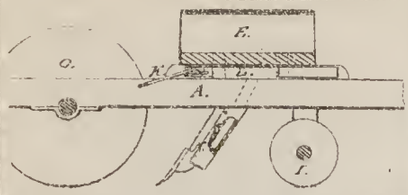


97,224. J. H. PHILLIPS.
CONSTRUCTION OF RAILWAYS.

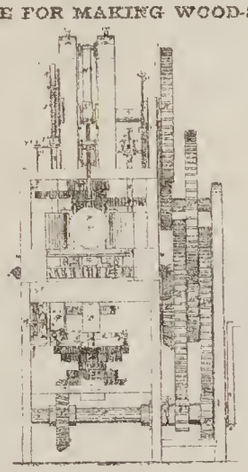
97,228.
HENRY REYNOLDS
LOW-WATER INDICATOR.



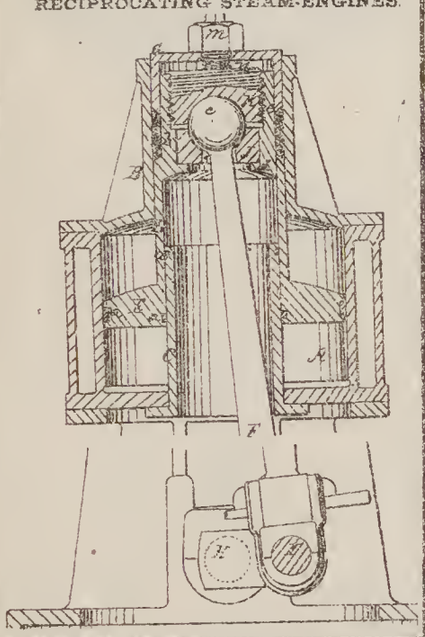
97,229, JOHN W. RICKETTS.
CORN-PLANTERS.



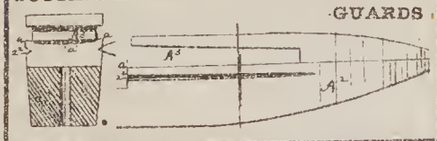
97,230, C. A. RODNEY.
MACHINE FOR MAKING WOOD-SCREW



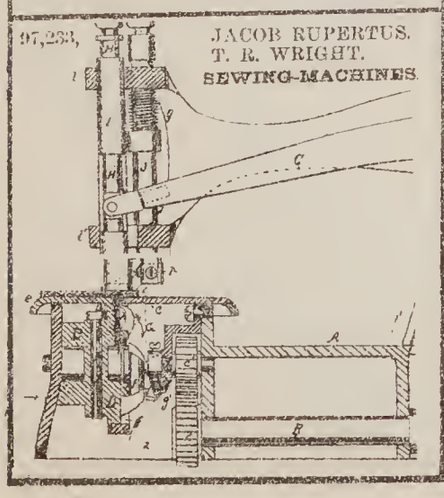
97,231. JOHN B. ROOT.
RECIPROCATING STEAM-ENGINES.



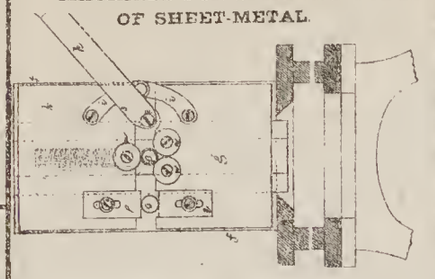
97,232, JACOB RUMMEL, JR.
METHOD OF RENOVATING THE CUTTING-EDGES OF HARVESTER GUARDS



97,233, JACOB RUPERTUS.
T. R. WRIGHT.
SEWING-MACHINES.

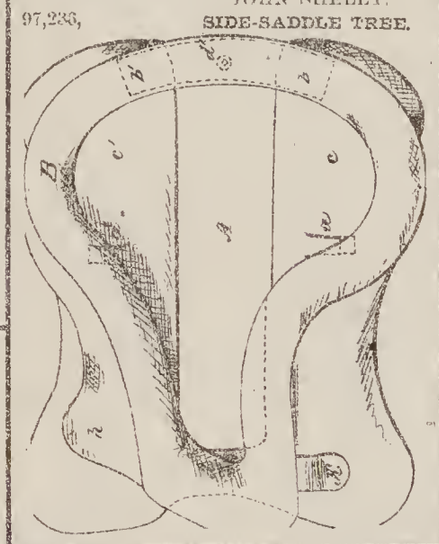


97,234. FRED. J. SEYMOUR.
MACHINES FOR SPINNING TUBES OF SHEET-METAL.

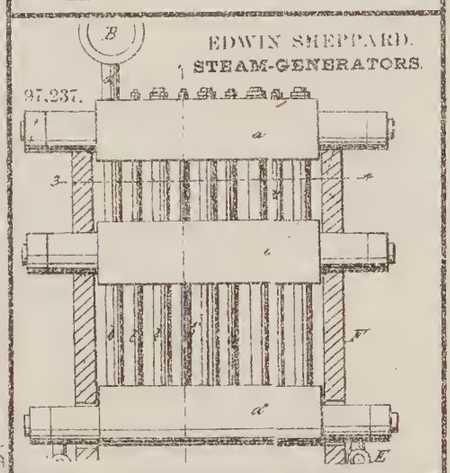


97,235 SUSPENDED.

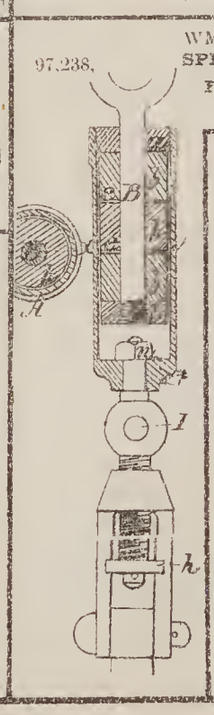
97,236, JOHN SHELLY.
SIDE-SADDLE TREE.



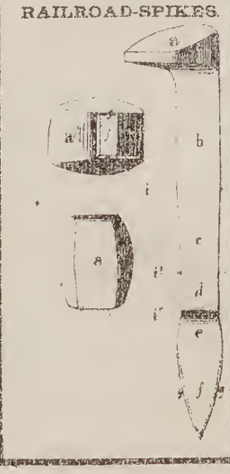
EDWIN SHEPPARD.
97,237. STEAM-GENERATORS.



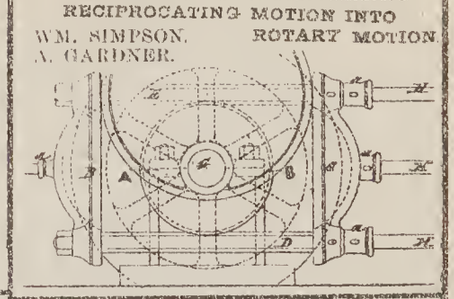
97,238. WM. H. SHOCK.
SPRING TURNBUCKLE FOR WIRE RIGGING



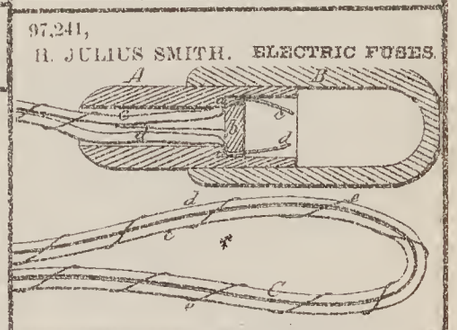
97,239.
W. S. SHOEMAKER.
E. H. SHOEMAKER.
RAILROAD-SPIKES.



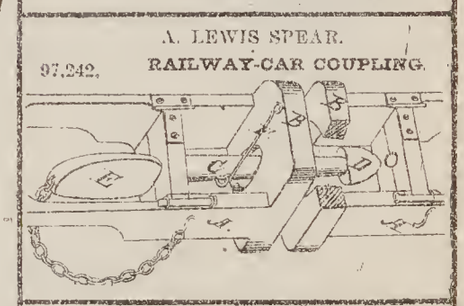
97,240.
MECHANISM FOR CONVERTING RECIPROCATING MOTION INTO ROTARY MOTION.
WM. SIMPSON.
A. GARDNER.



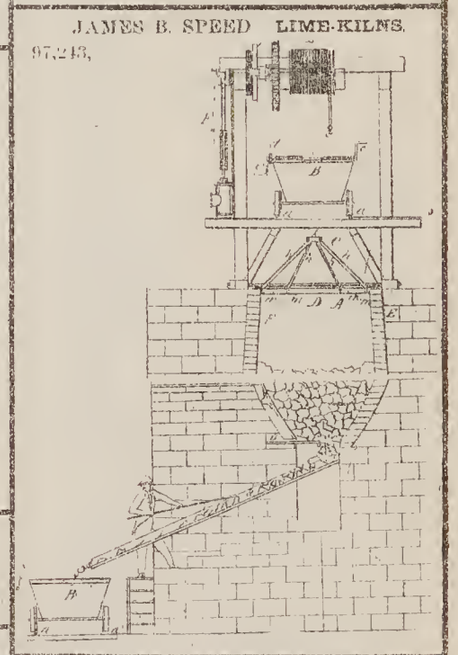
97,241,
H. JULIUS SMITH. ELECTRIC FUSES.



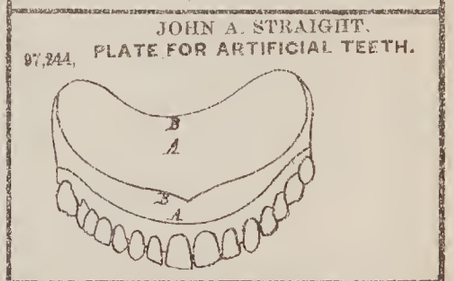
A. LEWIS SPEAR.
97,242, RAILWAY-CAR COUPLING.



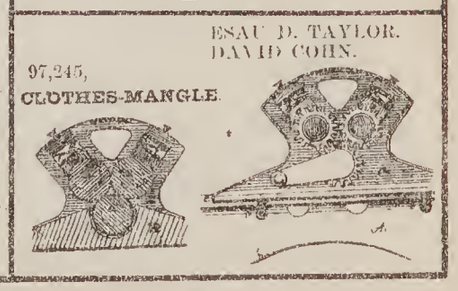
JAMES B. SPEED LIME-KILNS.
97,243,



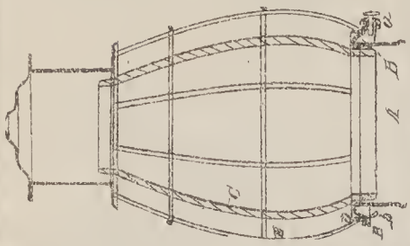
JOHN A. STRAIGHT.
97,244, PLATE FOR ARTIFICIAL TEETH.



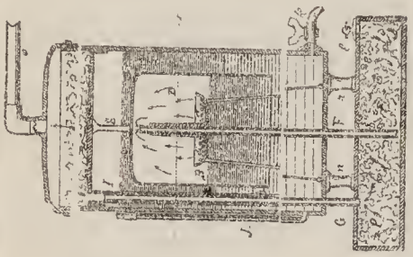
ESAU D. TAYLOR.
DAVID COHN.
97,245,
CLOTHES-MANGLE.



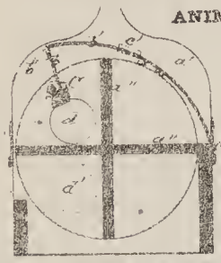
97,246. NATHAN THOMPSON.
LANTERNS.



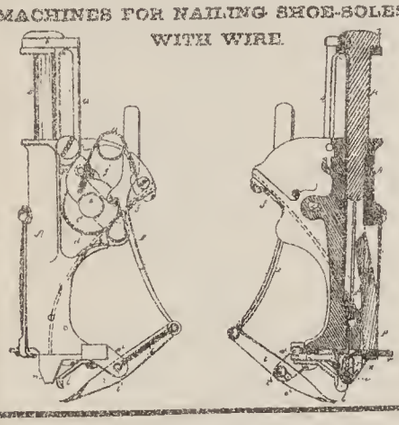
97,247. HOWARD TILDEN.
GAS-MACHINE.



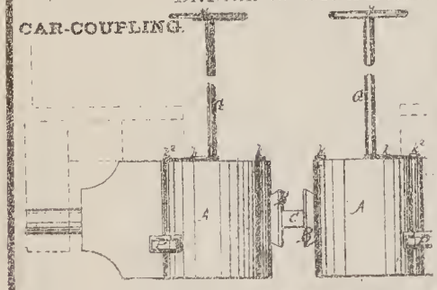
R. TOMPKINS.
97,248. ANIMAL-TRAP



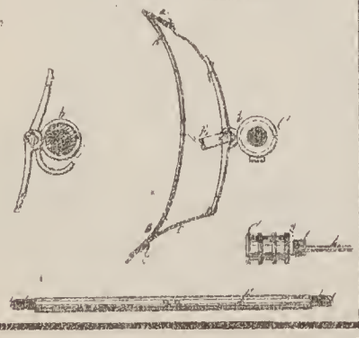
ELMER TOWNSEND.
97,249. LOUIS GODDU.
MACHINES FOR NAILING SHOE-SOLES WITH WIRE.



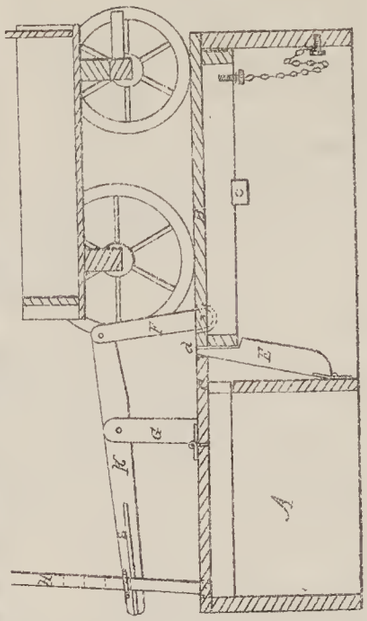
HENRY B. VERRIE.
97,250. DANIEL G. WIGHTMAN.
CAR-COUPLING.



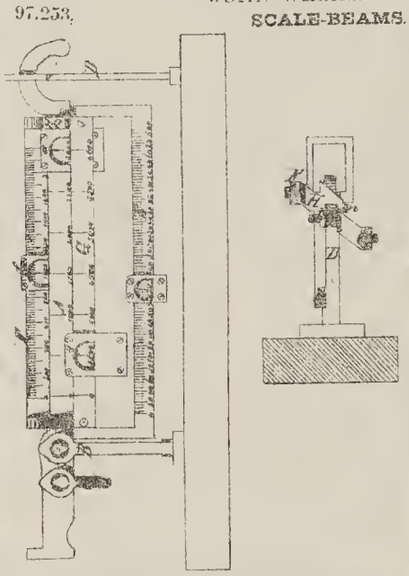
DAVID WALDHAUER. HARNESS.
97,251.



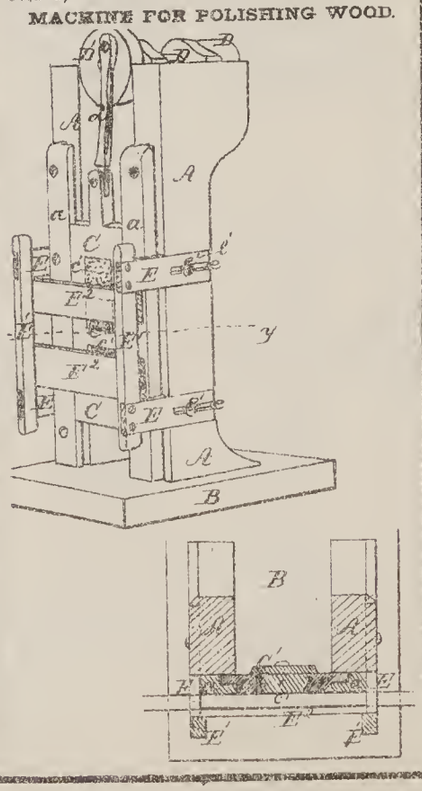
97,252. BENJAMIN WALTON.
DUMPING-MACHINE



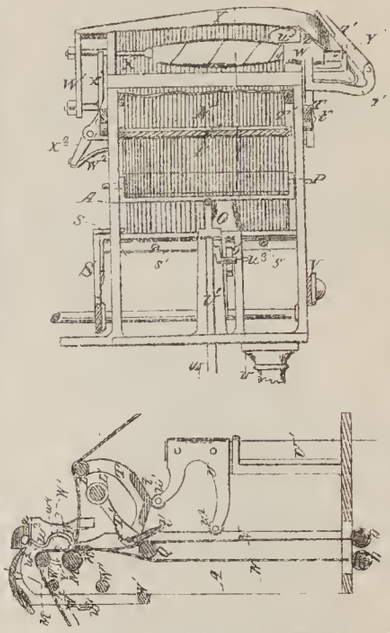
JOHN WEEKS.
97,253. SCALE-BEAMS.



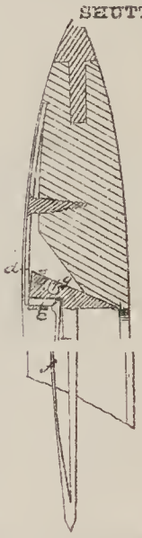
97,254. DANIEL WESTLEY.
MACHINE FOR POLISHING WOOD.



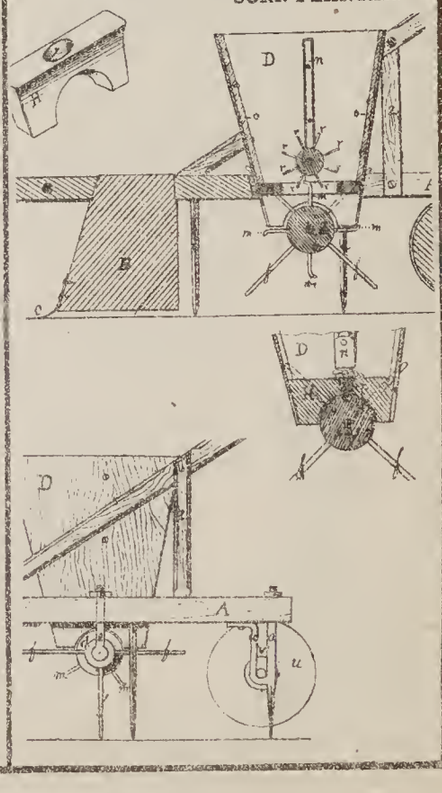
97,255 JOHN WETTSTEIN.
CIGAR-MACHINE.



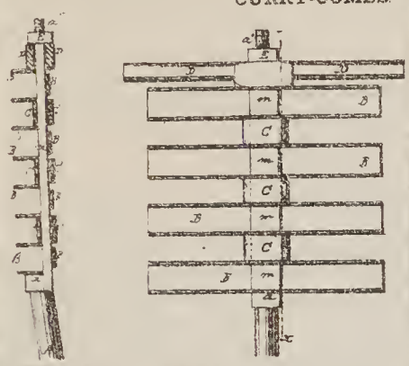
HENRY H. WHEELER.
97,256. OLIVER H. REED.
SHUTTLE-SPINDLE.



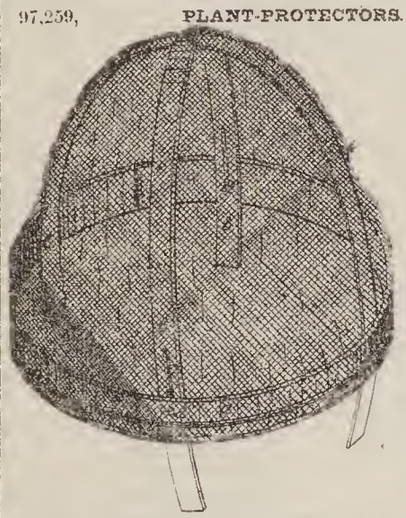
A. R. WIGGS.
97,257. COMBINED COTTON AND CORN-PLANTER.



97,258, J. E. YAGER.
CURRY-COMBS.

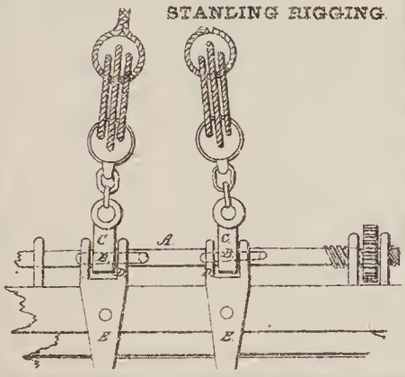


97,259, J. M. WATSON.
PLANT-PROTECTORS.



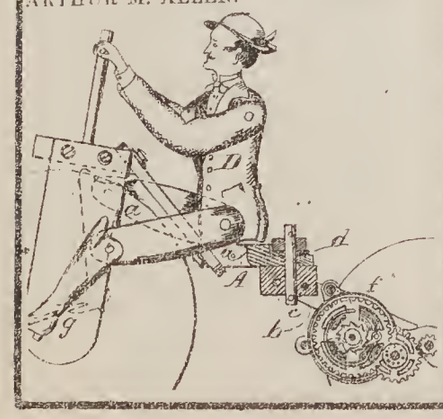
97,260, WILLIAM WICKERSHAM.
WIRE FOR FASTENING SOLES TO SHOES, &c.

97,261. FREDERICK WITTRAM.
DEVICE FOR RELEASING STANDING RIGGING.

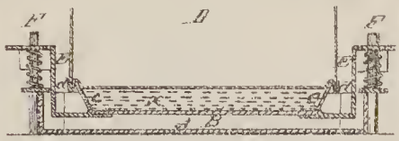


97,262, CYRUS S. MOORE.
LUBRICATING-COMPOUND.

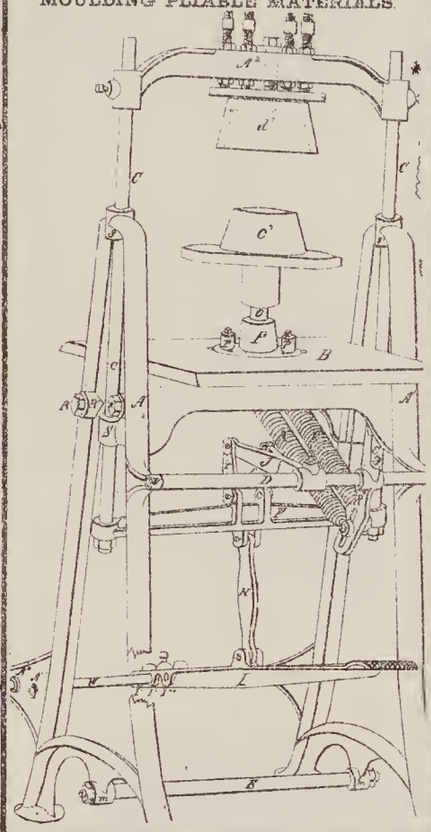
3,739,
ARTHUR M. ALLEN. VELOCIPEDE.



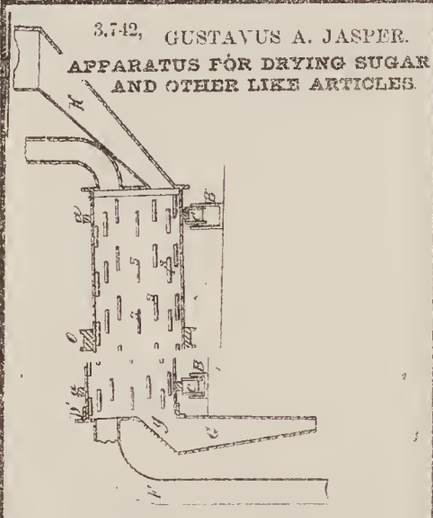
3,740, E. T. COVELL.
SOLDERING-MACHINES.



3,741. GEO. C. HOWARD.
MACHINE FOR PRESSING AND MOULDING PLIABLE MATERIALS.



3,742, GUSTAVUS A. JASPER.
APPARATUS FOR DRYING SUGAR AND OTHER LIKE ARTICLES.



3,743,
WM. J. LEWIS.
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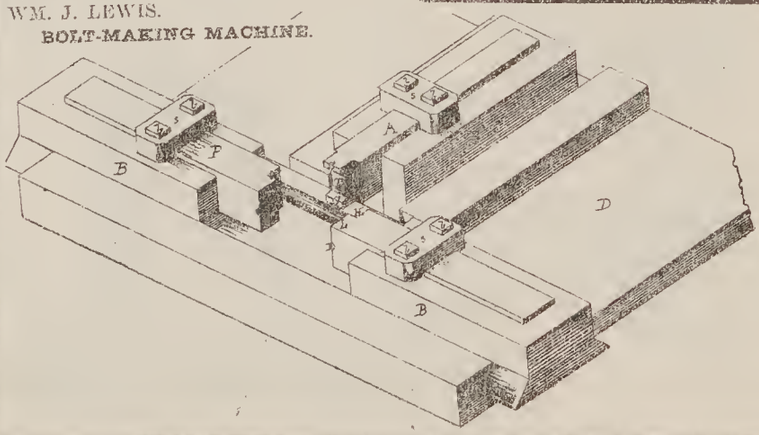

3,744, PETER NAYLOR.
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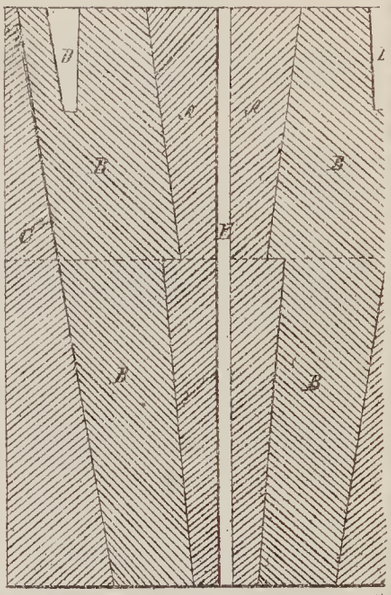

3,745. HAND SCREW-CLAMP.
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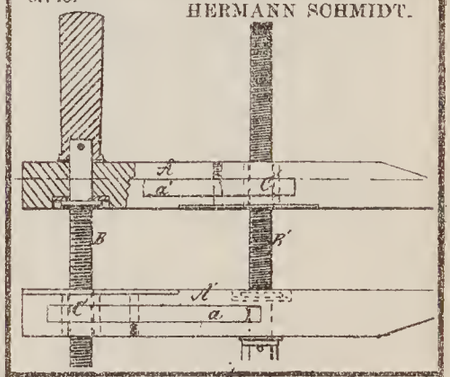

3,746, WIRE-SPRING MATTRESS.
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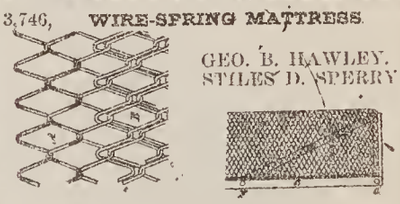

WILLIAM WESTLAKE.
3,747
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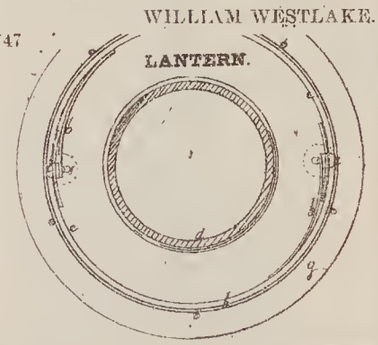

ILLUSTRATIONS OF PATENTS

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NOV. 30, 1869.

97,263, JAMES C. ANDERSON.
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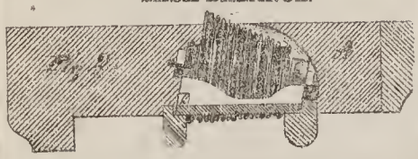

97,264, LAWRENCE ANGSTER.
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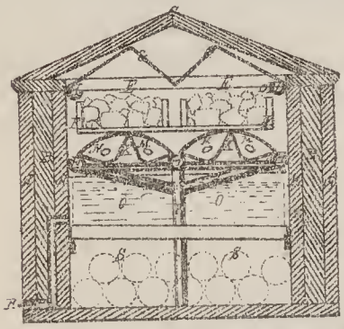

97,265, C. W. ARMSTRONG. COMPRESS.

97,266, JOSEPH BANIGAN.
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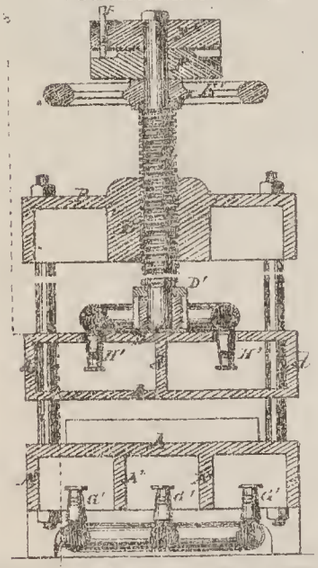
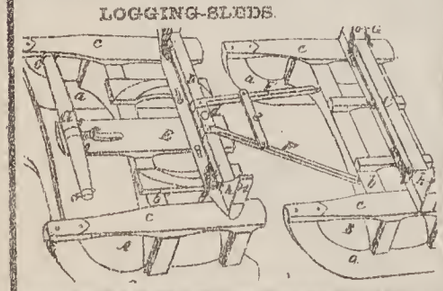


97,267, ALBERT R. BAXTER.
LOGGING-SLEDS.



97,268, WILLIAM GIBSON BELL.
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97,269, H. BERDAN.
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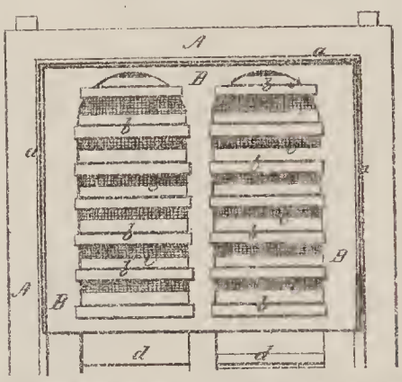

97,270, CHARLES BRADWAY.
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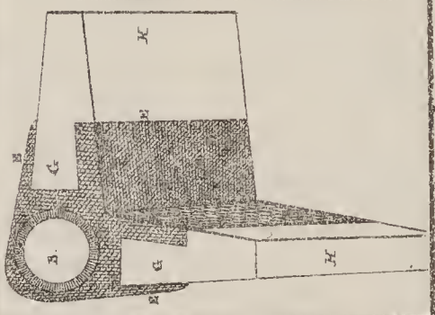

97,271, GEORGE V. BUNKER.
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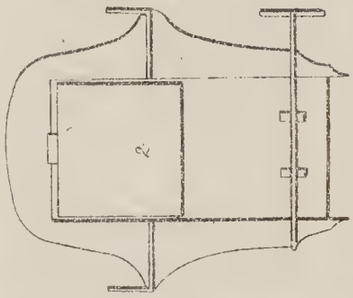

97,272, CHARLES CANFIELD.
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97,273, JOHN B. CATEY.
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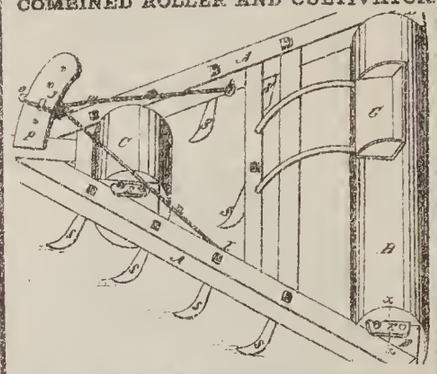

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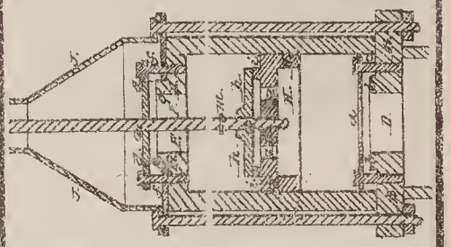

97,275, LORENZO D. COGSWELL.
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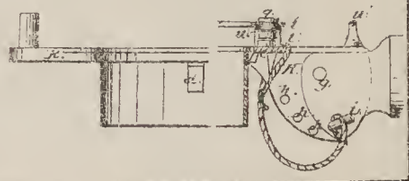

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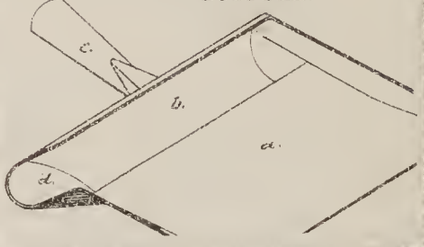
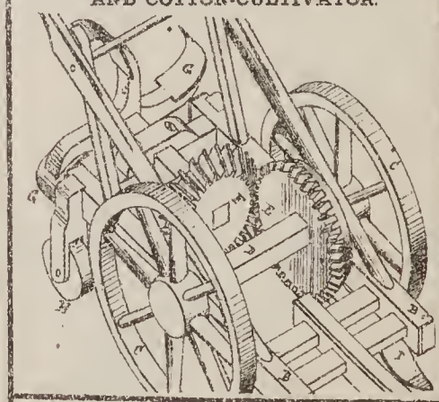


97,277, MAJOR E. DAVIS.
COMBINED REVOLVING HOE AND COTTON-CULTIVATOR.



97,278, DAVID L. DE GOLYER.
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97,279. AUG. DIETZ.
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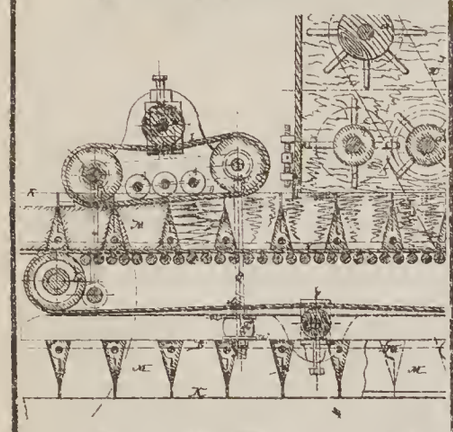

97,280, EVERD C. DODGE.
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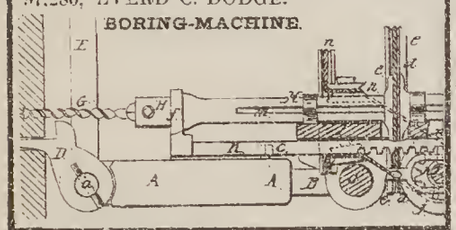
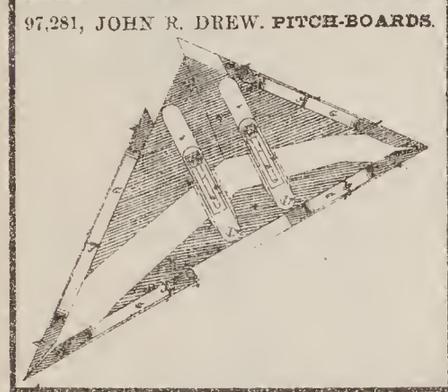
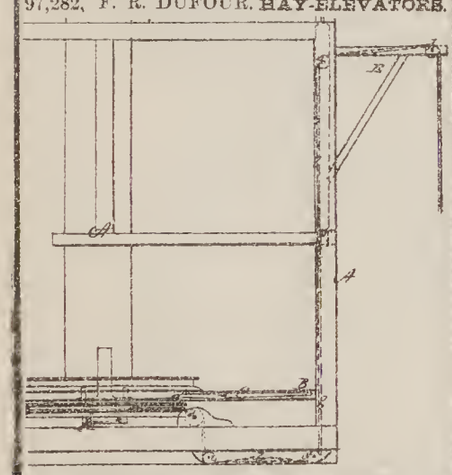


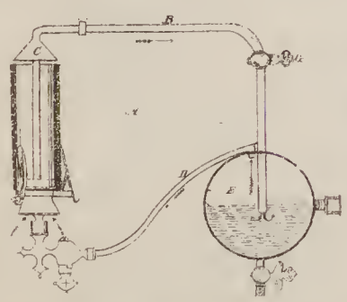
97,281, JOHN R. DREW. PITCH-BOARDS.



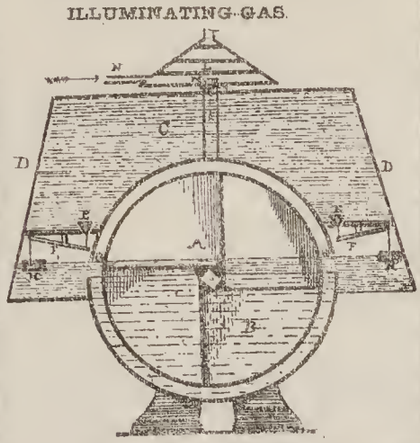
97,282, F. R. DUFOUR. HAY-ELEVATORS.



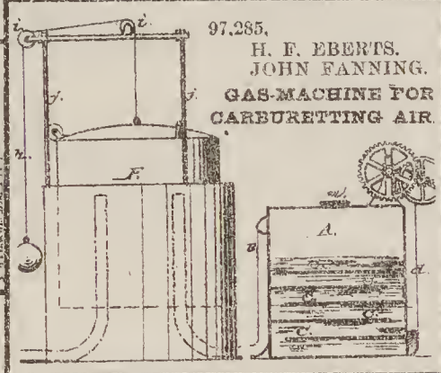
97,283, CLEAVELAND F. DUNDERDALE.
APPARATUS FOR CARBURETTING AIR.



97,284, CLEAVELAND F. DUNDERDALE.
APPARATUS FOR PRODUCING ILLUMINATING-GAS.



97,285, H. F. EBERTS. JOHN FANNING.
GAS-MACHINE FOR CARBURETTING AIR.



97,286. JACOB EDSON.
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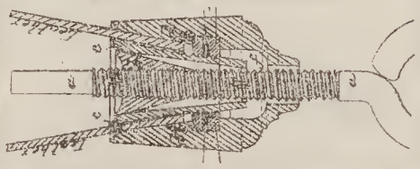
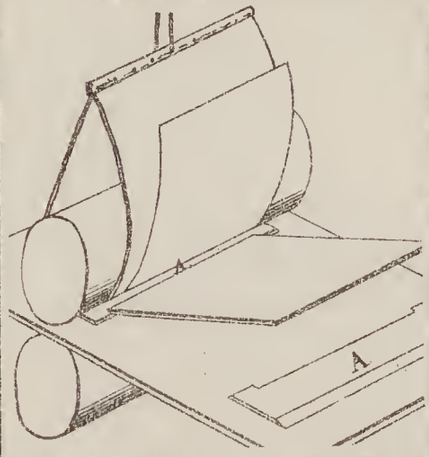
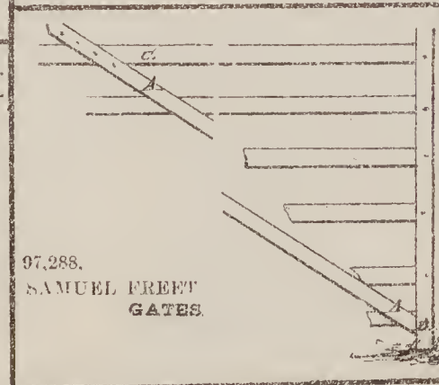


97,287, JOSEPH ENTHOFFER.
PLATE-PRINTING FOR COLORS.





97,288, SAMUEL FREET
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97,289, PETER CANTZ.
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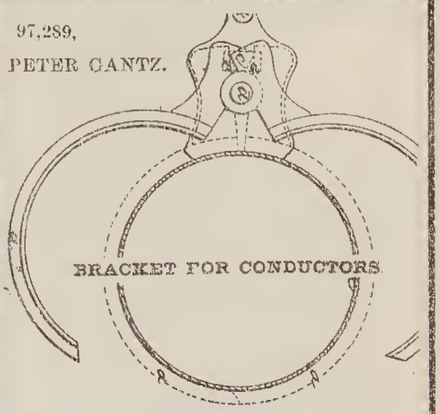

97,290, JOHN H. GARRIGAN. FRANCIS L. HALL.
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97,291. R. D. GRANGER.
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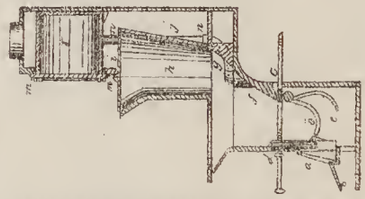
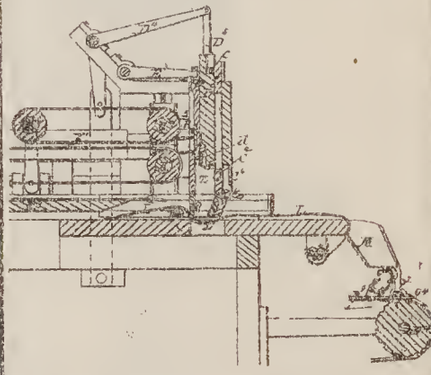


97,292, WM. HALL. E. J. BENNETT. FOR FORMING CIGARS AND PLUG-TOBACCO.



97,293, L. B. HARBERGER.
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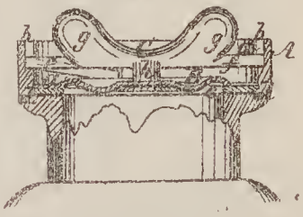

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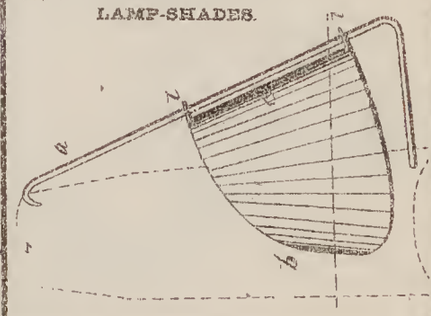

97,295, CHARLES BIRMINGHAM HOGG
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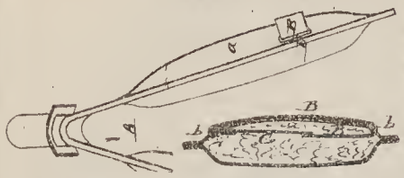

97,296, MARCUS L. HORTON.
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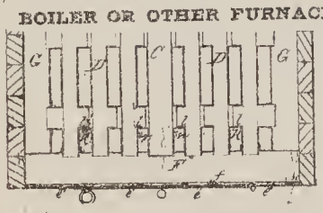

97,297, STEPHEN INMAN.
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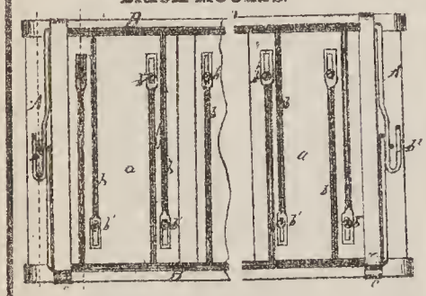

97,298, MELVIN JINCKS.
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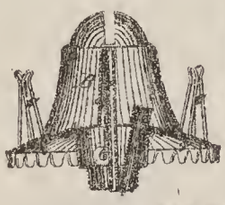

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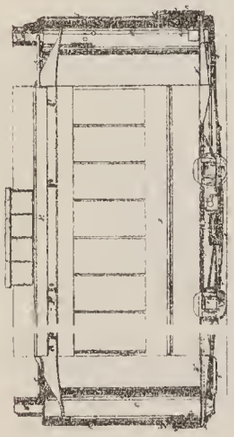

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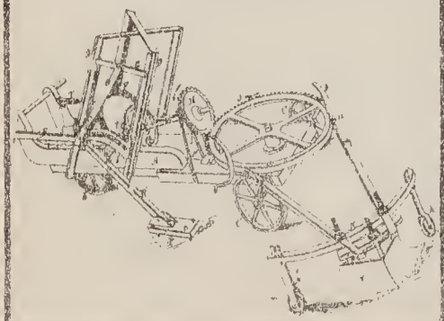

97,301, COOK C. LAWRENCE.
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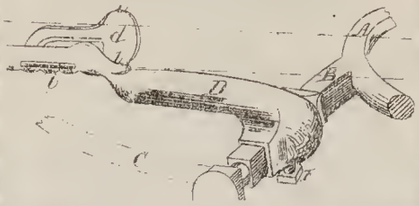

97,302, C. LEFFINGWELL.
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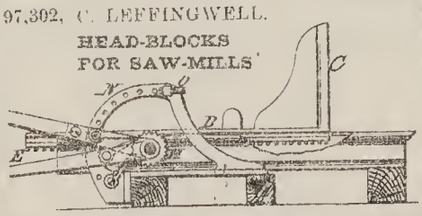

97,303, HIRAM L. LOCKWOOD.
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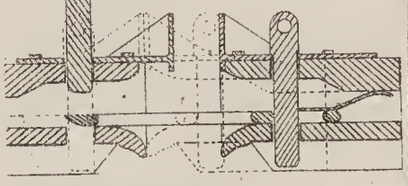

97,304, MOSES LOEB.
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97,305, WILLIAM B. MACK.
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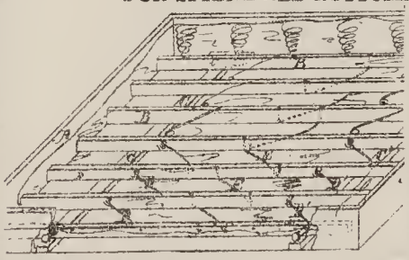
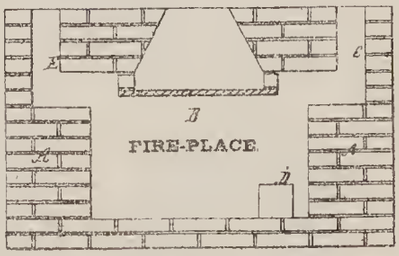
97,306, DAVID MANUEL. FOUNDATION FOR SPRING-BED BOTTOMS.



97,307, STEPHEN MARTIN.



97,308, BERNARD McENALLY.
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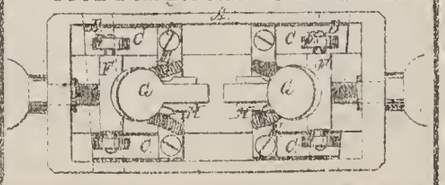
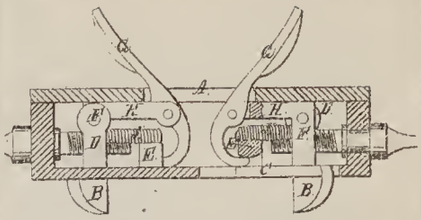
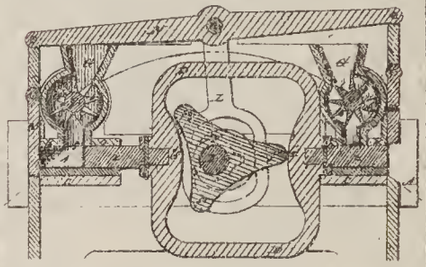
TOOL FOR MOULDING DOVETAILS.

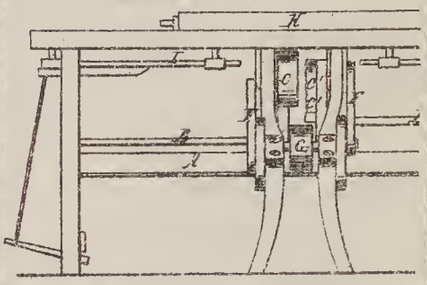




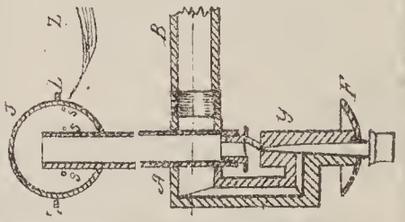
97,309, T. M. MITCHELL.
PRESSES FOR COMPACTING THE WASTE PARTICLES OF COAL INTO BLOCKS FOR FUEL.



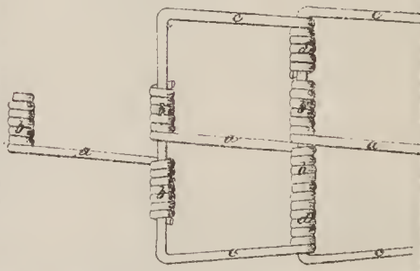
97,310, SAMUEL NEWMAN.
STAVE-MACHINES.



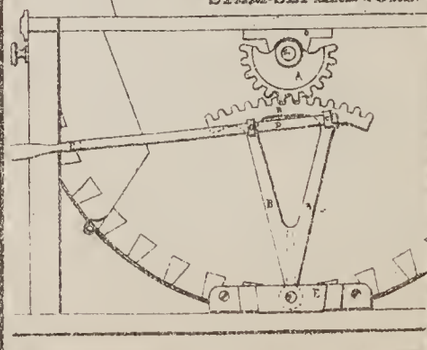
97,311, J. H. PATTEE.
VAPOR-BURNERS.



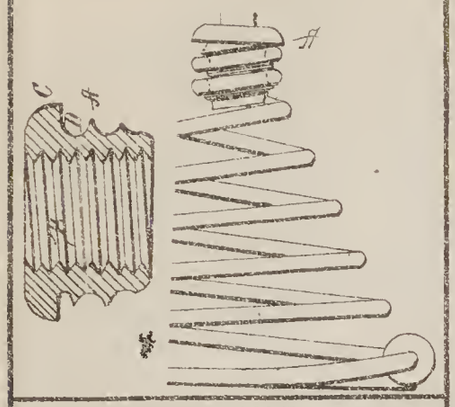
97,312, W. P. POWERS.
METAL BELTING.



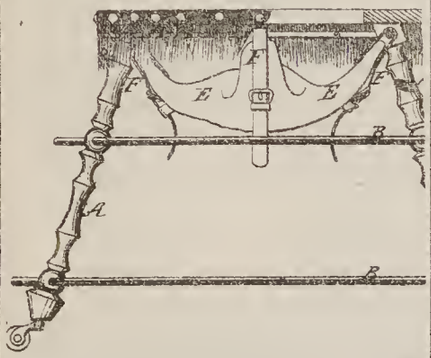
97,313, TURNER C. PURINGTON.
GRAPE-CRUSHERS AND STEM-SEPARATORS.



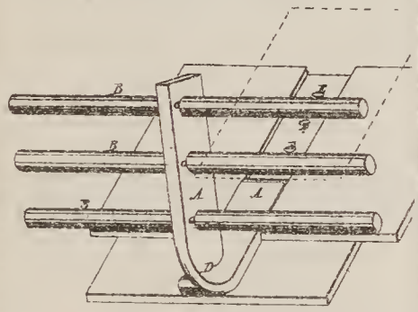
97,314. TURNER C. PURINGTON.
CHAIR-SPRING.



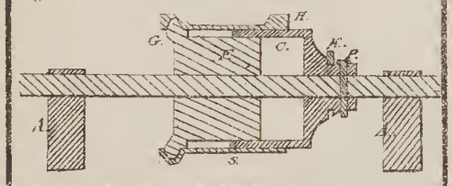
97,315, P. H. RANDOLPH.
BABY-WALKER.



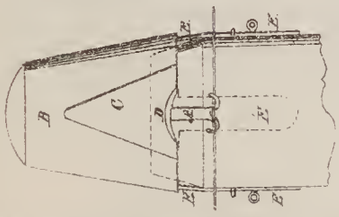
97,316, ANDREW ROGERS.
SNOW-GUARD FOR ROOFS.



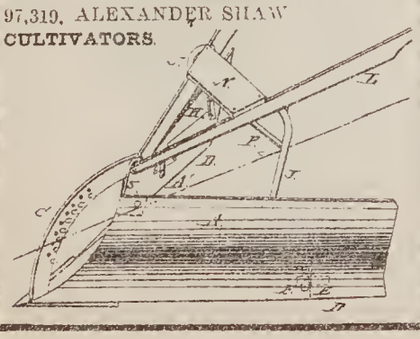
97,317, J. S. ROWELL. SEEDERS.



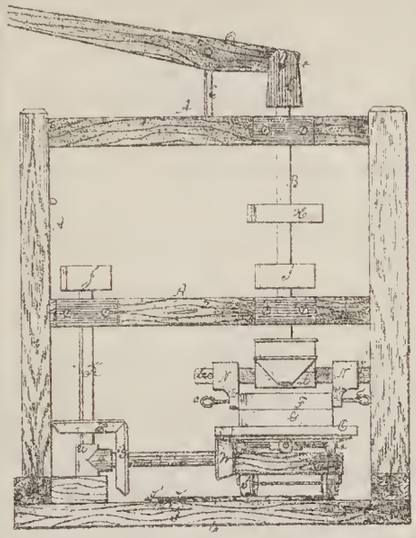
97,318, ALFRED G. SAFFORD.
TELEGRAPH-INSULATORS.



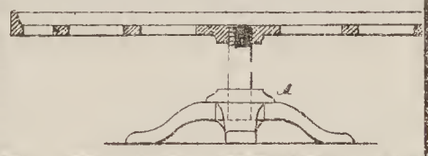
97,319, ALEXANDER SHAW
CULTIVATORS.



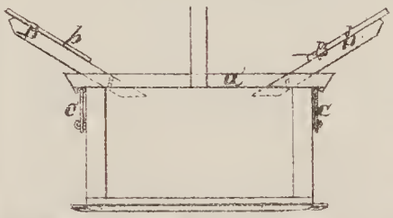
97,320, FRANKLIN SIMMONS.
MACHINE FOR DRESSING MILLSTONES.



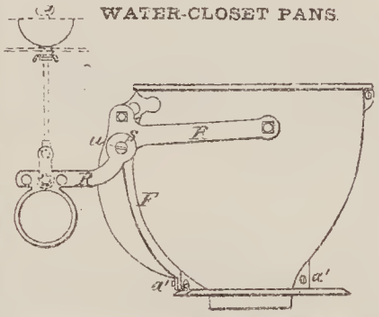
97,321. D. N. SMITH. STOVE-STAND.



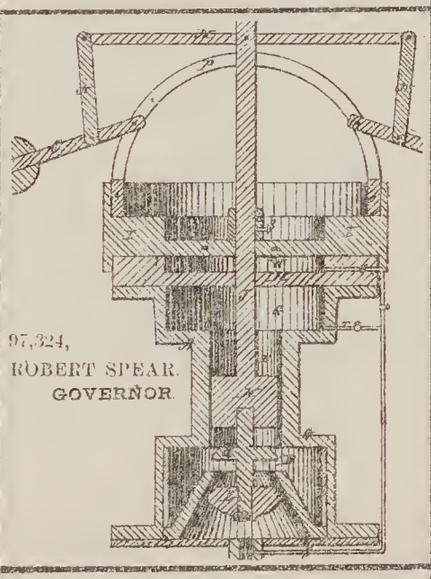
97,322, STEPHEN J. SMITH.
HAY-RACKS FOR WAGONS.



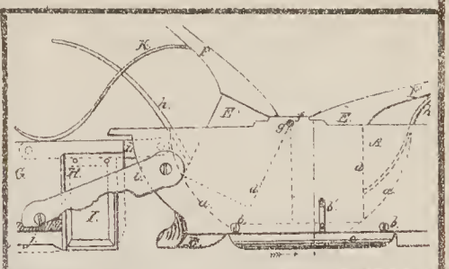
97,323, W. SMITH.
WATER-CLOSET PANS.



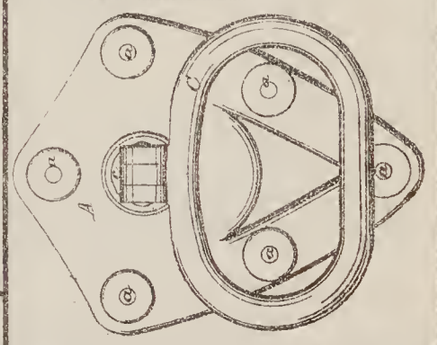
97,324,
ROBERT SPEAR.
GOVERNOR.



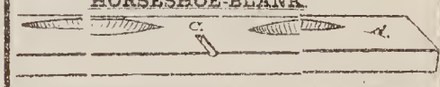
97,325. ALFRED STEVENS. MACHINE FOR PUTTYING SEAMS OF VESSELS.



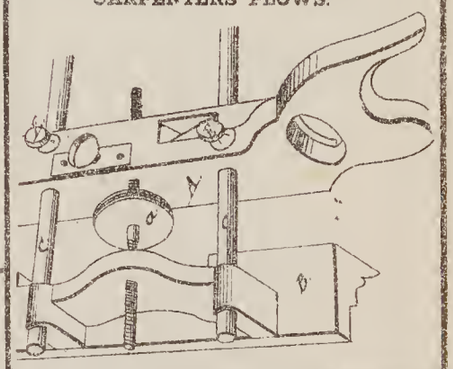
97,326, L. A. SUNDERLAND.
CAN-HANDLES.



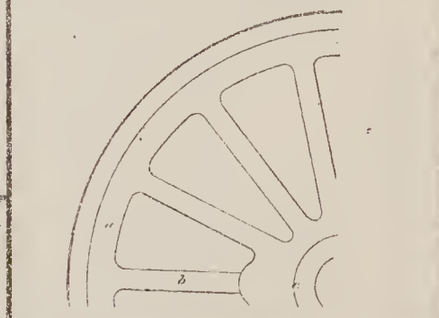
97,327, ENOCH B. TURNER.
HORSESHOE-BLANK.



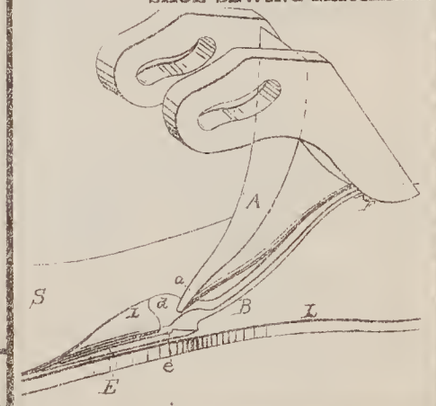
97,328, HARMON VANBUSKIRK.
CARPENTERS' PLOWS.



97,329, ZADOCK WASHBURN.
RAILWAY-CAR WHEELS.

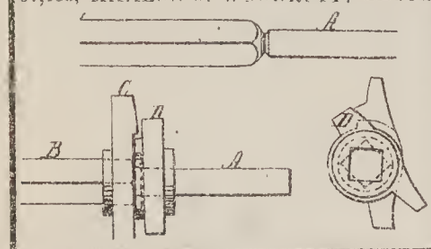


97,330. ORIN WEEMAN.
CHANNEL-OPENER FOR BOOT AND SHOE SEWING-MACHINES.

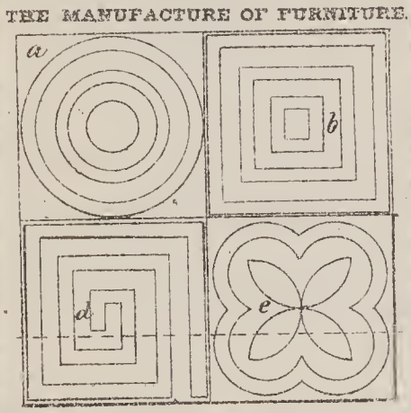


97,331, PHILO S. WHITE.
FASTENINGS FOR NECKTIES.

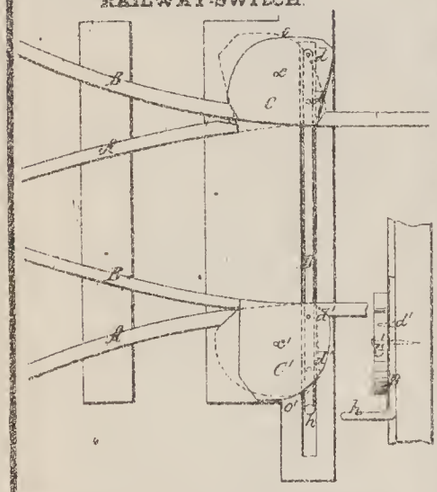
97,332, MAHLON J. WOODRUFF. LATCH.



97,333, E. H. WOODWARD.
TILES OR SLABS FOR FLOORING AND WAINSCOTING, AND FOR THE MANUFACTURE OF FURNITURE.



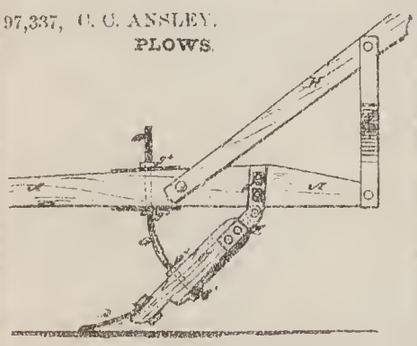
97,334, WM. L. YANTIS.
RAILWAY-SWITCH.



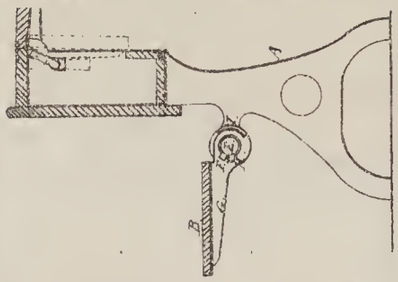
97,335, W. N. ABBOTT.
LUBRICATING-COMPOUND.

97,336, JOSEPH ALBERT.
PRINTING PHOTOGRAPHS.

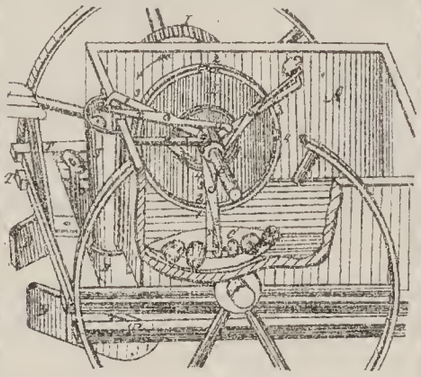
97,337, C. C. ANSLEY.
PLOWS.



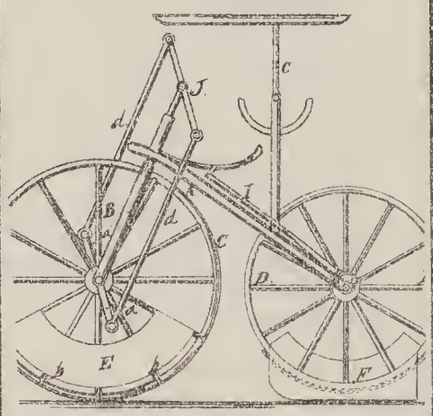
97,338, B. W. ARNOLD.
SCHOOL-DESK AND SEAT.



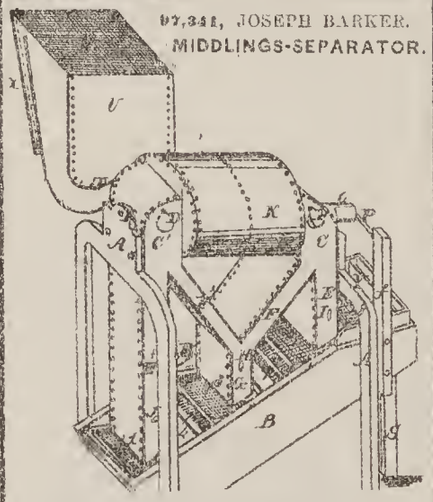
97,339, L. AUGS. ASPINWALL.
MACHINE FOR PLANTING POTATOES.



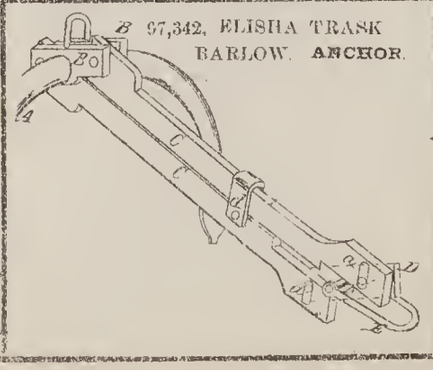
97,340, SYLVESTER M. BAILEY.
VELOCIPEDES.



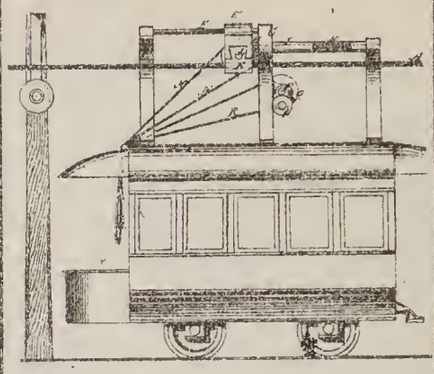
97,341, JOSEPH BARKER.
MIDDLINGS-SEPARATOR.



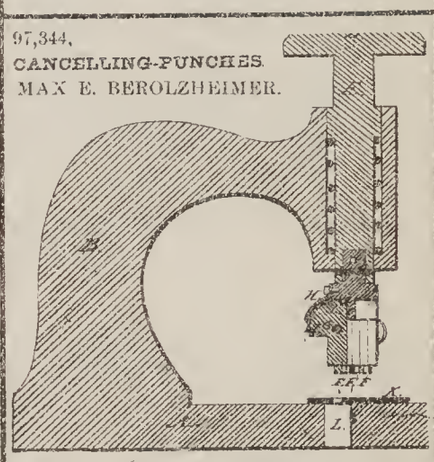
97,342, ELISHA TRASK BARLOW. ANCHOR.



97,343, G. T. BEAUREGARD.
MACHINERY FOR PROPELLING CARS.

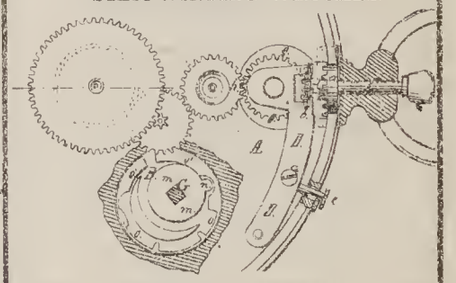


97,344,
CANCELLING-PUNCHES.
MAX E. BEROLZHEIMER.

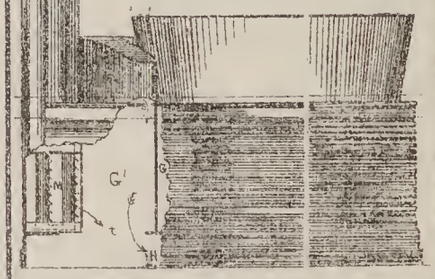


97,345, BENJAMIN BISSELL.
LINIMENT FOR THE TREATMENT OF NEURALGIA, RHEUMATISM,

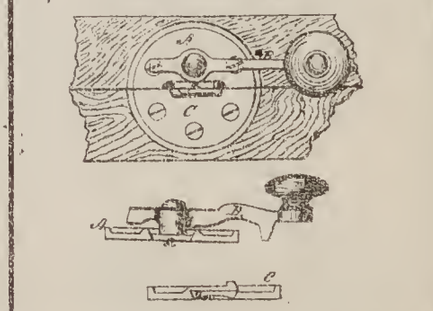
97,346, EDOUARD BOURQUIN.
STEM-WINDING WATCHES.



97,347, ROBT. BOYD.
JAS. C. HART.
HOT-AIR FURNACE.

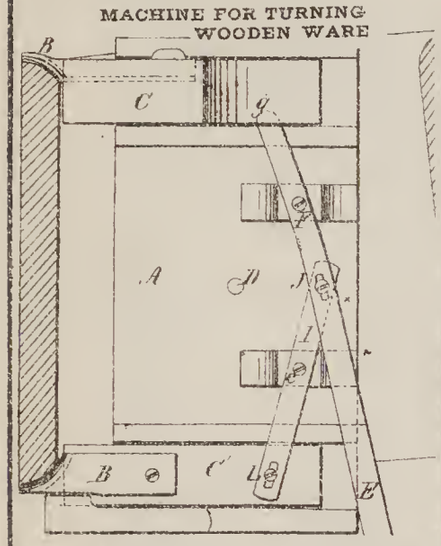


97,348, E. K. BRECKENRIDGE.
WINDOW-BUTTON.

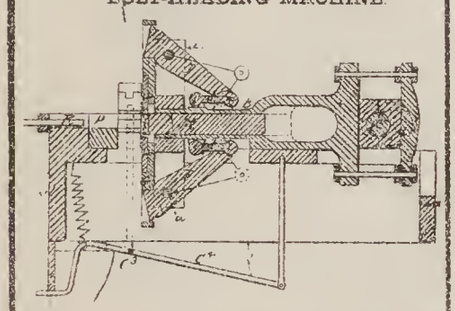


97,349, CATHARINE BRUNER.
PRESERVING EGGS AND OTHER ARTICLES.

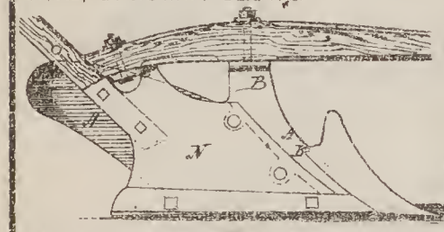
97,350, JOHN C. BRYANT, ANDREW W. TURNER.
MACHINE FOR TURNING WOODEN WARE



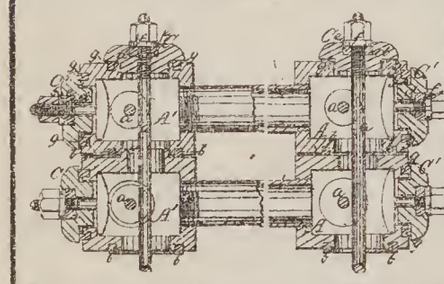
97,351, O. C. BURDICT.
BOLT-HEADING MACHINE.



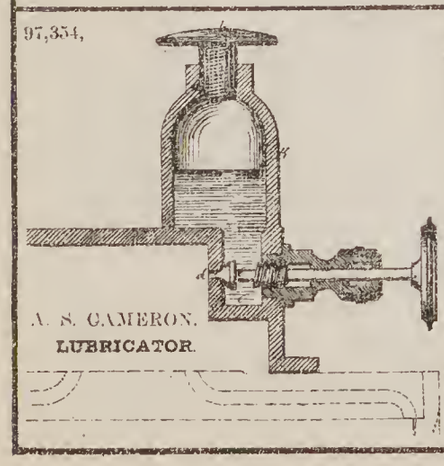
97,352, P. BURNS. **PLOWS.**



97,353. A. S. CAMERON.
SECTIONAL STEAM-GENERATORS.

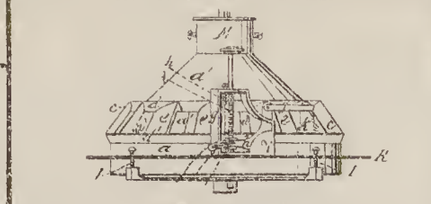


97,354,

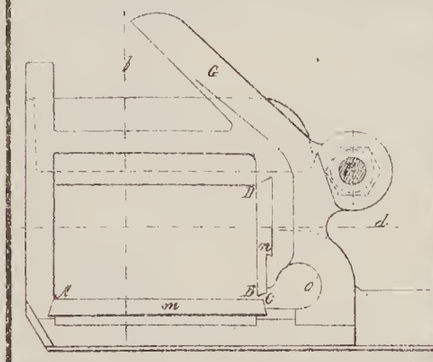


A. S. CAMERON.
LUBRICATOR.

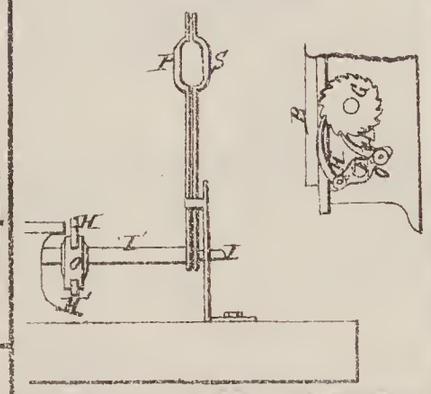
97,355, JOEL T. CASE. **WATER-WHEELS.**



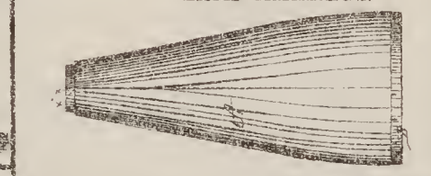
97,356, CYRUS CHAMBERS.
CUT-OFF FOR BRICK-MACHINES.



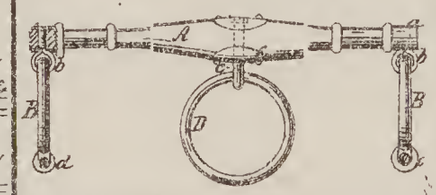
97,357, THOMAS E. CHANDLER.
SAW-MILLS.



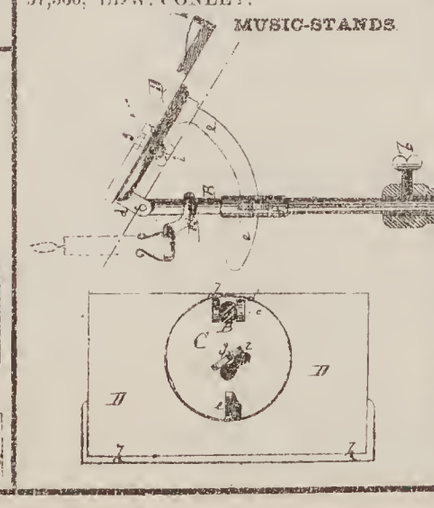
97,358, EBEN SIMPSON CHASE.
LAMP-CHIMNEYS.



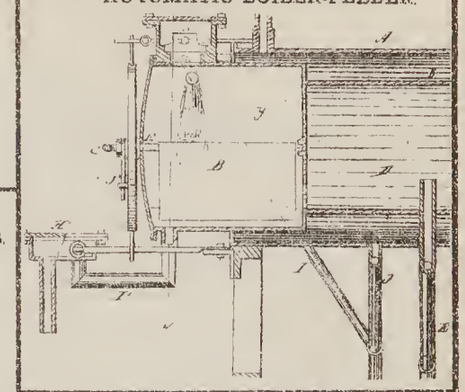
97,359, GEORGE P. COLE. **NECK-YOKE.**



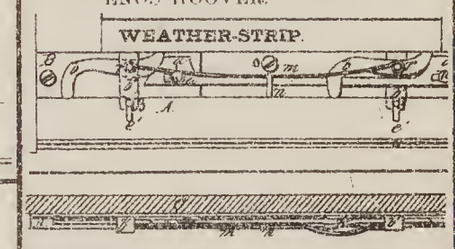
97,360, EDW. CONLEY.
MUSIC-STANDS.



97,361. SILAS COOK.
AUTOMATIC BOILER-FEEDER.

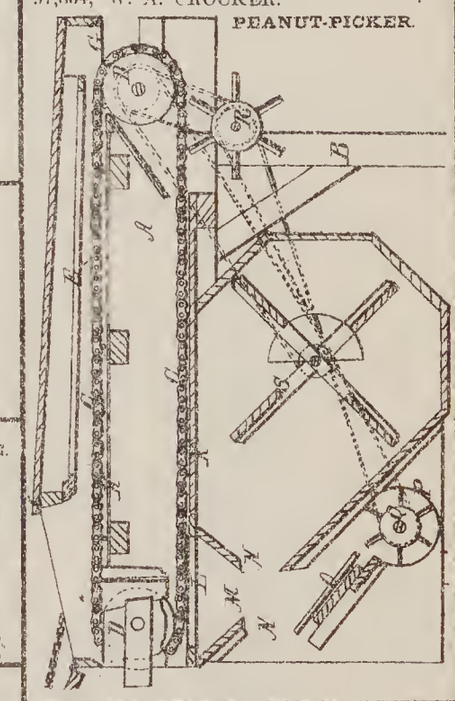


97,362. GEORGE W. CRETORS, ENOS HOOVER.
WEATHER-STRIP.



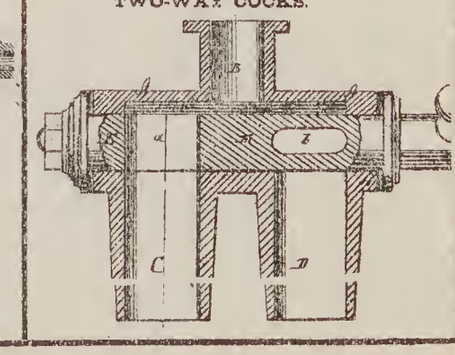
97,363.
A. P. CRITCHLOW.
BUTTONS

97,364, W. A. CROCKER.
PEANUT-PICKER.

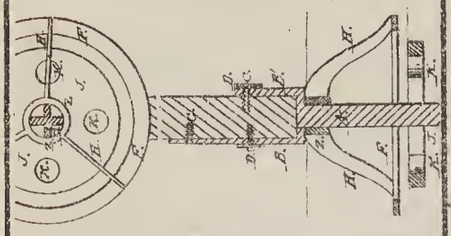


97,365, JOHN GALLEMORE DALE, EDWARD MILNER.
MODE OF PRODUCING WHITE LEAD.

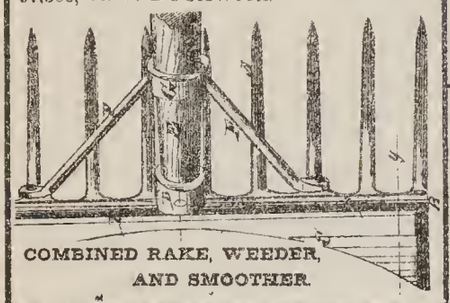
97,366, D. F. DODGE.
TWO-WAY COCKS.



97,367. J. P. DORMAN.
ARBOR OR FENCE-POST.

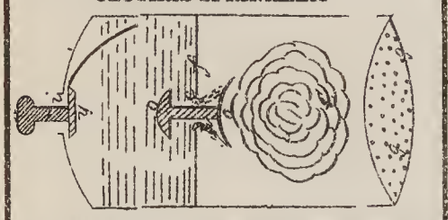


97,368, A. F. DÜCKWITZ.

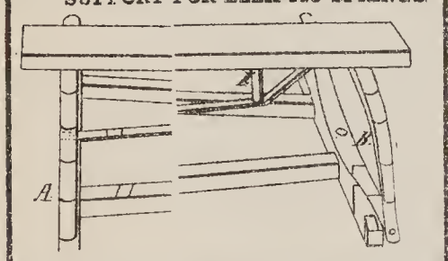


COMBINED RAKE, WEEDER, AND SMOOTHER.

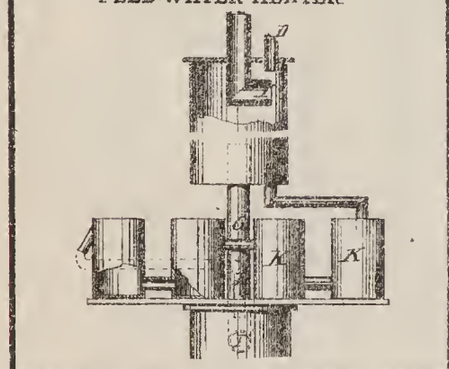
97,369, SAML. G. DUGDALE.
CLOTHES-SPRINKLER.



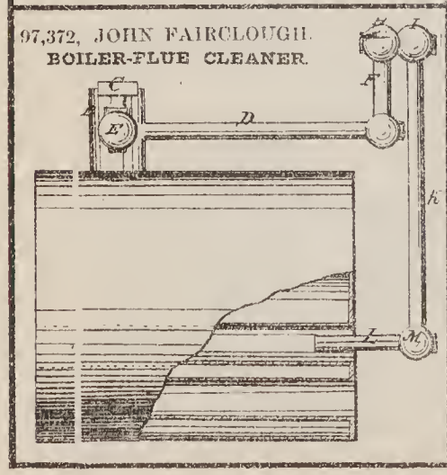
97,370, ELLIS EVES.
SUPPORT FOR ELLIPTIC SPRINGS.



97,371, JOHN FAIRCLOUGH.
FEED-WATER HEATER.



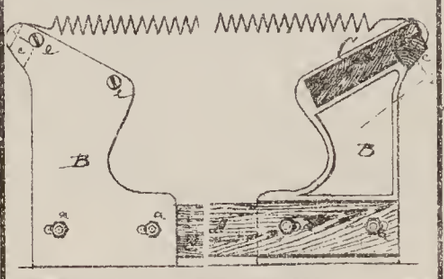
97,372, JOHN FAIRCLOUGH.
BOILER-FLUE CLEANER.



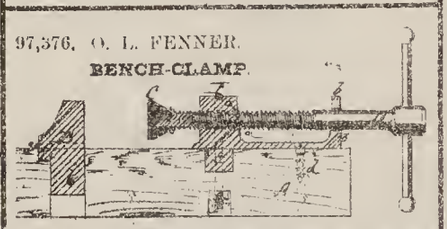
97,373, JOHN FAIRCLOUGH.
MILLSTONE-DRESS.

97,374, MOSES G. FARMER.
SUBMARINE-TELEGRAPH CABLES.

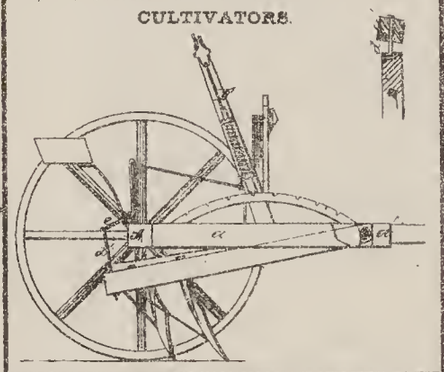
97,375, J. M. FARNHAM.
BEDSTEAD-FRAME.



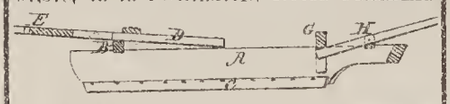
97,376, O. L. FENNER.
BENCH-CLAMP.



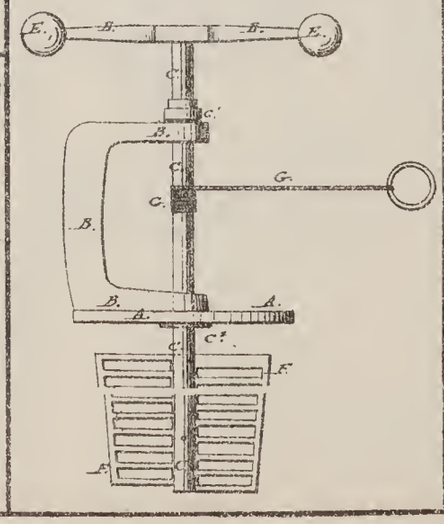
97,377, JAMES FERGUSON.
CULTIVATORS.



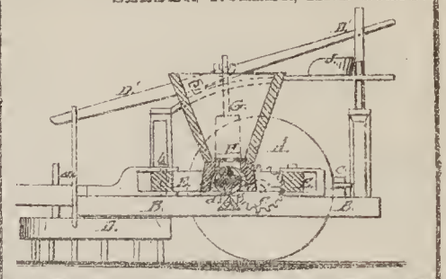
97,378, E. L. FOREMAN. ROAD-GRADER.



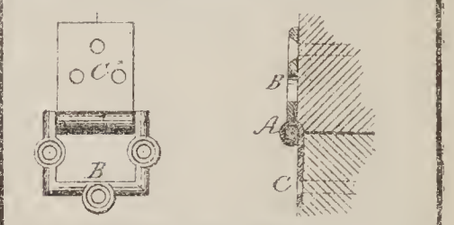
97,379, H. G. FOUGEN.
A. C. FOUGEN. EGG-BEATER.



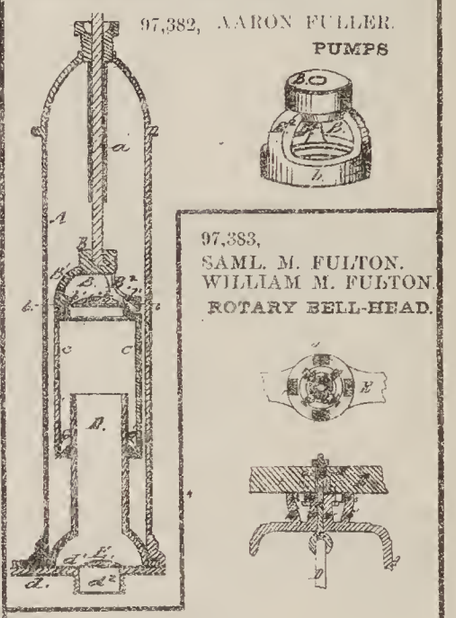
97,380, JOHN V. B. FRANCE. COMBINED SEEDER, ROLLER, AND DRAG.



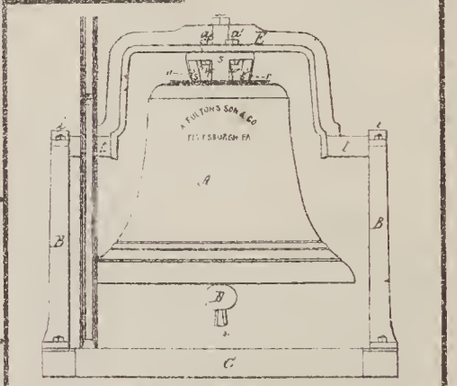
97,381, L. FRÜHINSFELD. HINGE.



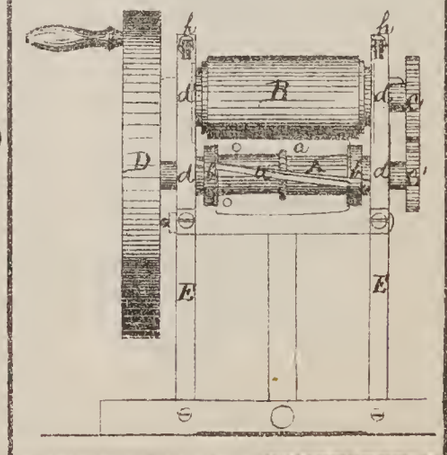
97,382, AARON FULLER.
PUMPS.



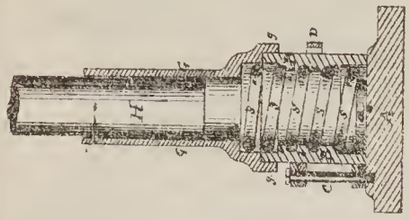
97,383,
SAML. M. FULTON.
WILLIAM M. FULTON.
ROTARY BELL-HEAD.



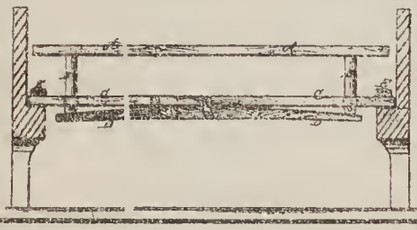
97,384, WARREN GALE.
FEED-CUTTERS.



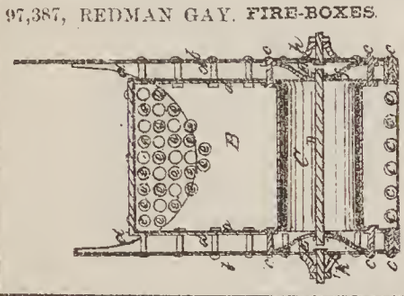
97,385, P. G. GARDINER.
PACKER FOR RAILWAY-CAR SPRINGS.



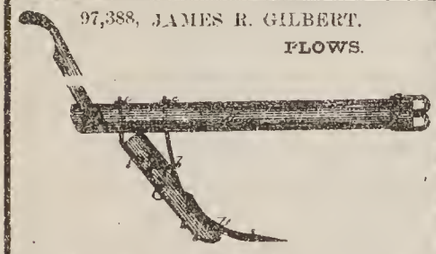
97,386, F. J. GARDNER. BED-SPRING.



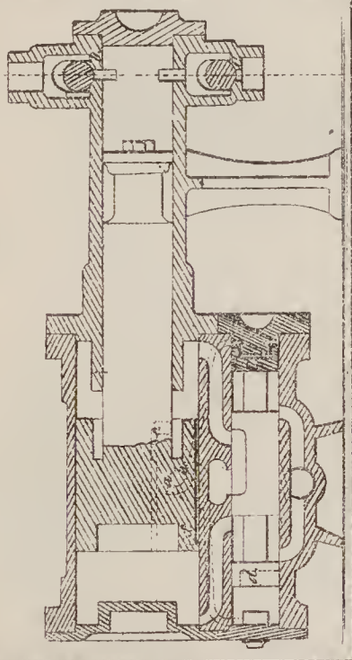
97,387, REDMAN GAY. FIRE-BOXES.



97,388, JAMES R. GILBERT.
PLOWS.

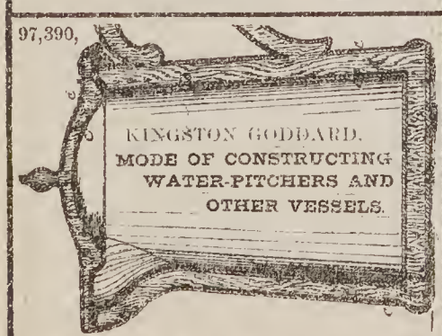


97,389,



WALTER W. GILBERT.
STEAM-PUMPS.

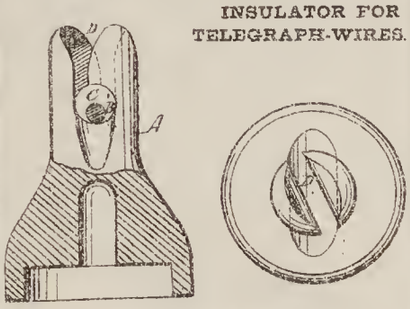
97,390,



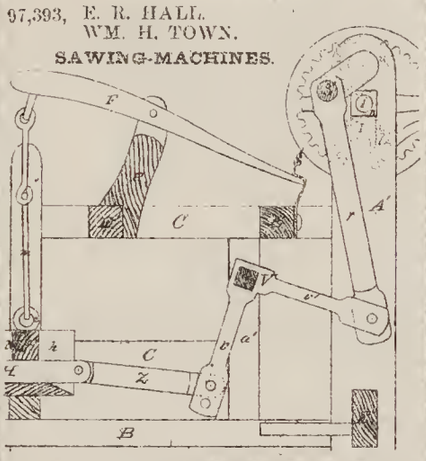
KINGSTON GODDARD.
MODE OF CONSTRUCTING WATER-PITCHERS AND OTHER VESSELS.

97,391, HENRY E. GRAHAM.
RICHD. D. CHILD. COMBINED WATCH-KEY AND TOOTHPICK.

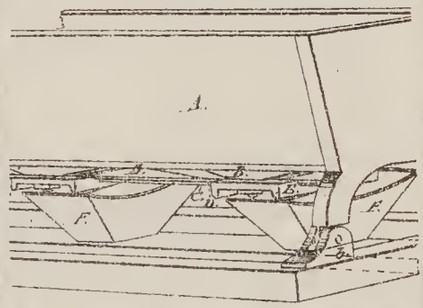
97,392, W. D. GUSEMAN.
E. C. BRIGHT.
INSULATOR FOR TELEGRAPH-WIRES.



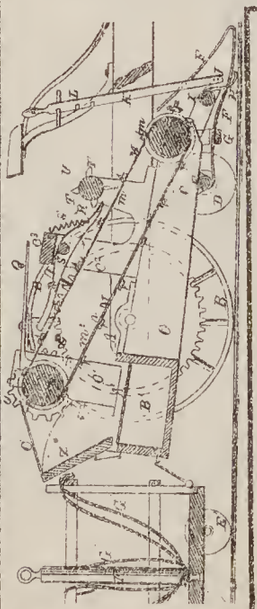
97,393, E. R. HALL.
WM. H. TOWN.
SAWING-MACHINES.



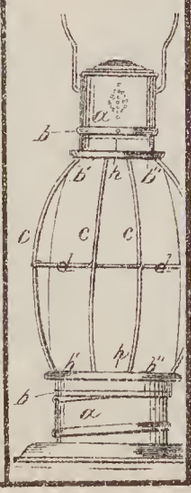
97,394, W. N. HAMILTON.
GRAIN-DRILLS



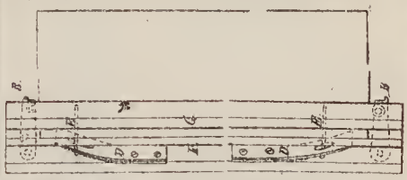
97,395, JAMES R. HAMMOND.
COMBINED HAY-RAKE, THRESHER LOADER AND STACKER.



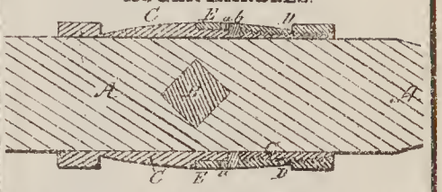
97,396, H. W. HARKNESS.
LANTERNS.



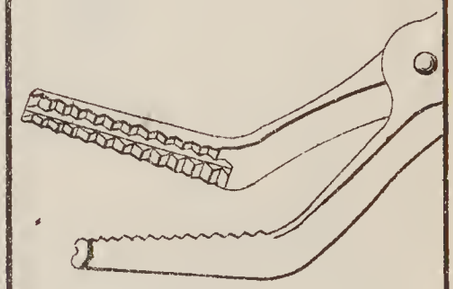
97,397, B. F. HERR. PAPER-FILES.



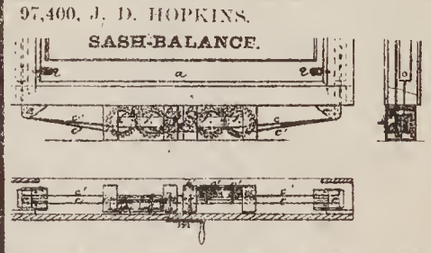
97,398, GEORGE W. HERRING.
AUGER-HANDLES.



97,399, DANIEL M. HOLMES
INSTRUMENT FOR PULLING WEEDS.

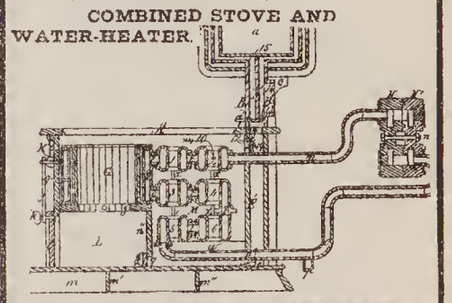


97,400, J. D. HOPKINS.
SASH-BALANCE.

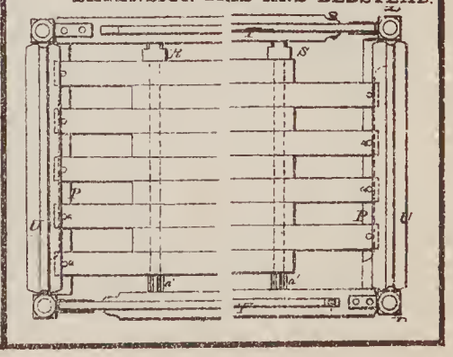


97,401, CHARLES H. HORNE.
BELLY-BAND FASTENER.

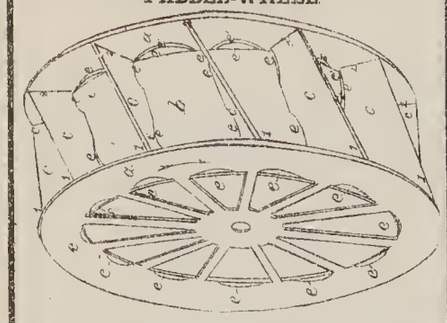
97,402, HENRY HOWARD.
COMBINED STOVE AND WATER-HEATER.



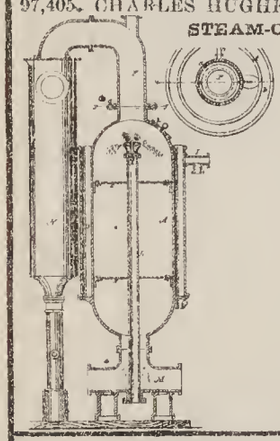
97,403, CHAS. H. HUDSON.
EXTENSION-CRIB AND BEDSTEAD.



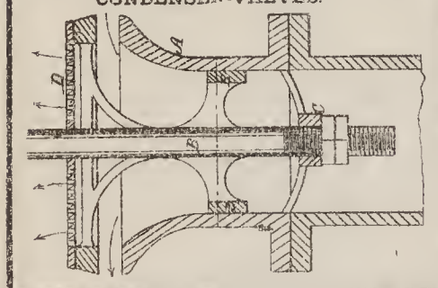
97,404. WILLIAM HUFFMAN.
PADDLE-WHEEL.



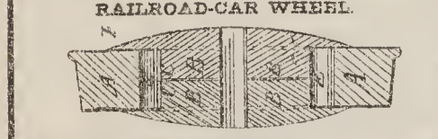
97,405. CHARLES HUGHES.
STEAM-CONDENSERS.



97,406, CHARLES HUGHES.
CONDENSER-VALVES.

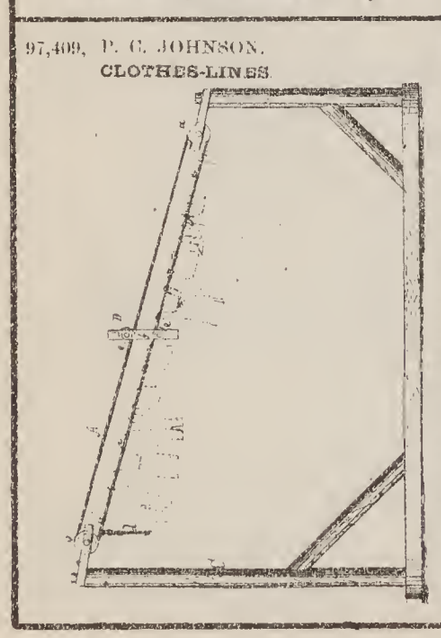


97,407, LEWIS B. HUNT.
RAILROAD-CAR WHEEL.

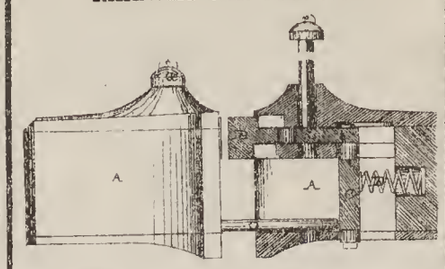


97,408, JOHN C. JOHNSON.
WAGON-SKEINS.

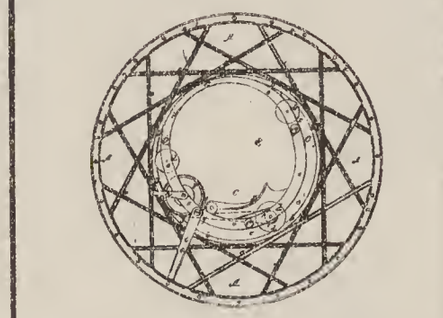
97,409, P. C. JOHNSON.
CLOTHES-LINES.



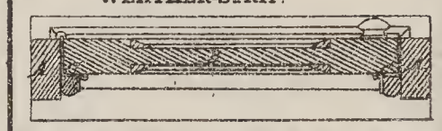
97,410, WILLIAM C. JOHNSON.
RAILWAY-CAR COUPLING.



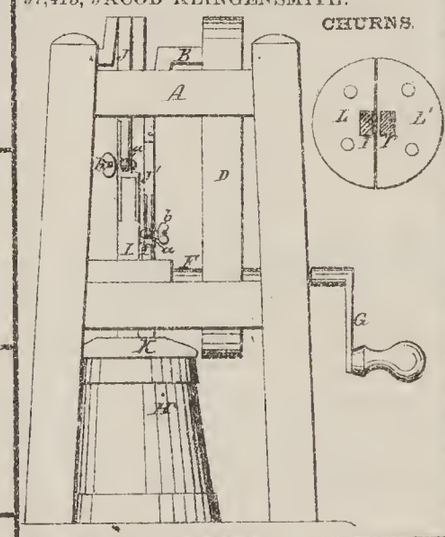
97,411. WILLIS H. JOHNSON.
VELOCIPEDES.



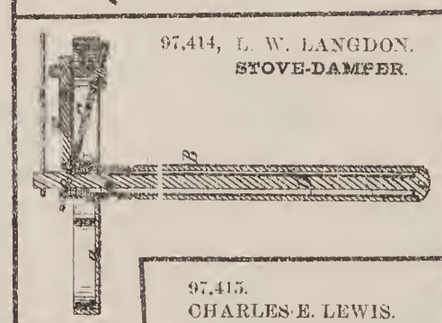
97,412, JOSEPH JOHNSTON
WEATHER-STRIP.



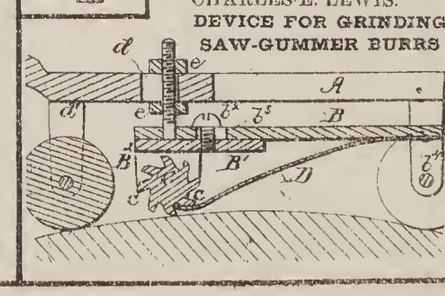
97,413, JACOB KLINGENSMITH.
CHURNS.



97,414, L. W. LANGDON.
STOVE-DAMPER.



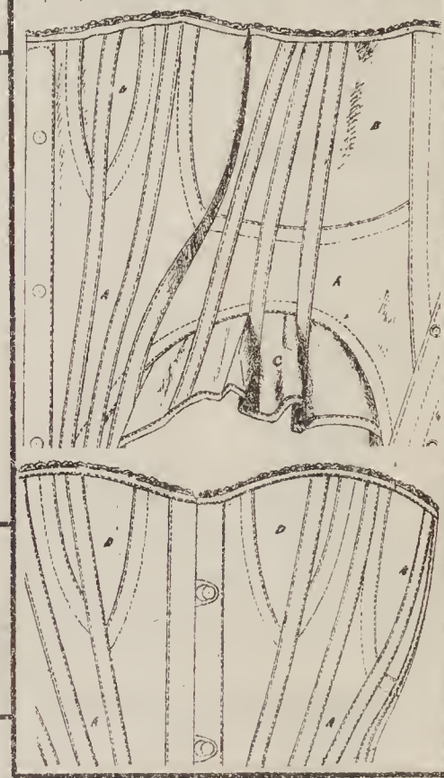
97,415.
CHARLES E. LEWIS.
DEVICE FOR GRINDING SAW-GUMMER BURRS.



97,416, SAML. H. LINTAN. **HARROWS.**

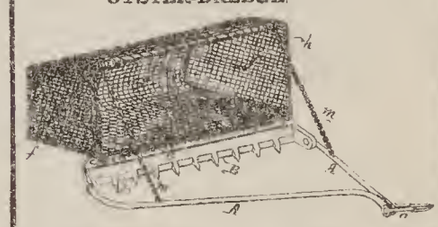
97,417, ALSON A. LOTHROP.
METALLIC SOLUTION FOR COATING IRON AND STEEL.

97,418, HENRY A. LYMAN. **CORSETS.**

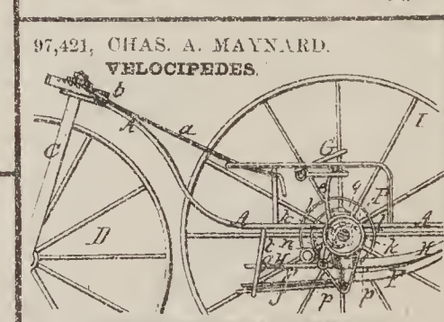


97,419, SUSPENDED.

97,420. THOMAS F. MAYHEW.
OYSTER-DREDGE.



97,421, CHAS. A. MAYNARD.
VELOCIPEDES.



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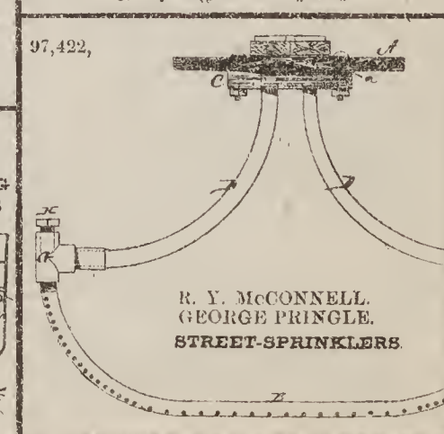
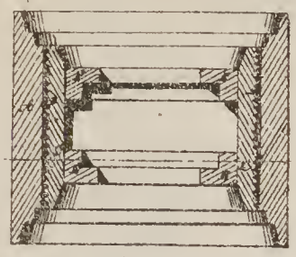
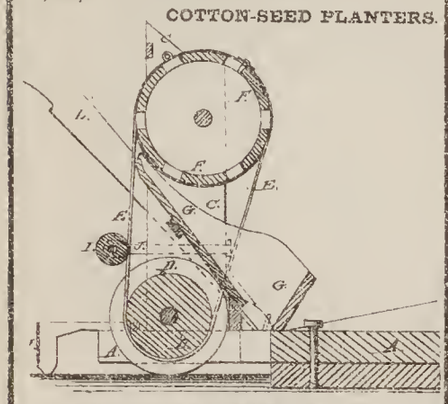


R. Y. McCONNELL.
GEORGE PRINGLE.
STREET-SPRINKLERS.

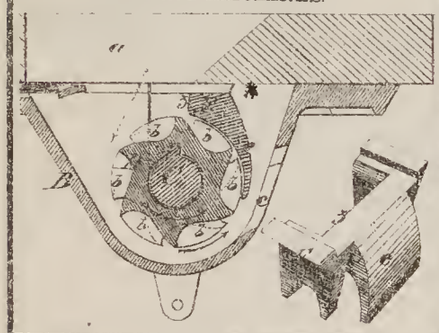
97,423. WM. McFARLAND. SAFES.



97,424, MATTHEW McMILLIAN. COTTON-SEED PLANTERS.

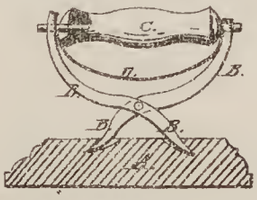


97,425, DANIEL E. McSHERRY. DROPPING-DEVICE FOR SEEDING-MACHINES.

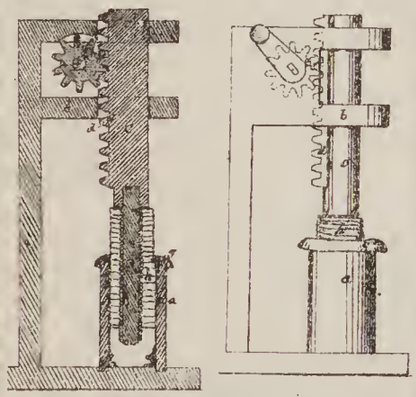


97,426. RUFUS S. MERRILL PRINTING-TYPE.

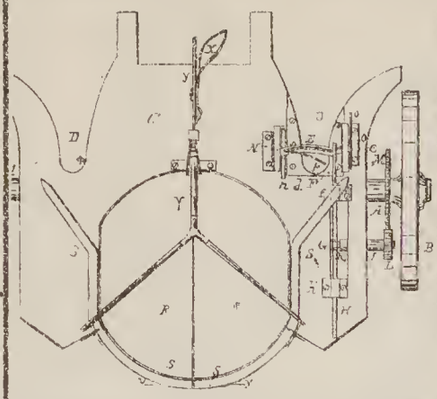
97,427, M. W. MONTGOMERY. E. H. VOTAW. SAD-IRON.



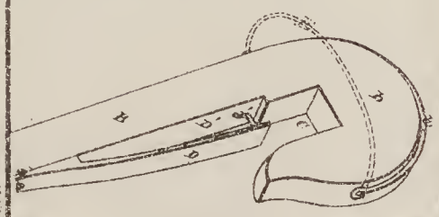
97,428, JOEL MOULTON. MODE OF COVERING ELASTIC ROLLS.



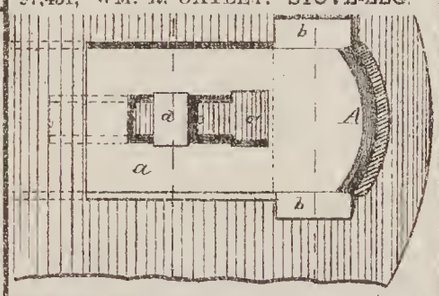
97,429, NELSON NEWMAN. CORN-HARVESTER.



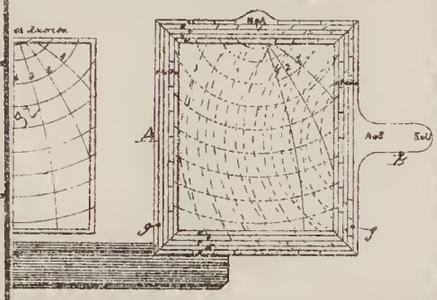
97,430, ROBERT NICHOLSON. WRENCH.



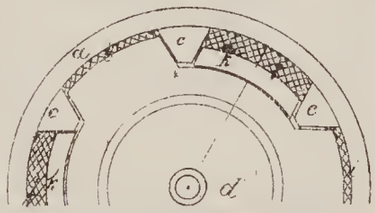
97,431, WM. R. OATLEY. STOVE-LEG.



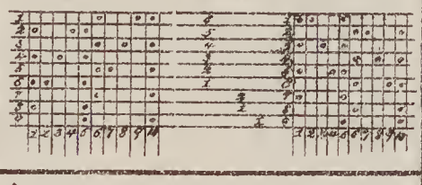
97,432. GEO. S. ORMSBY. MAP-DRAWING APPARATUS.



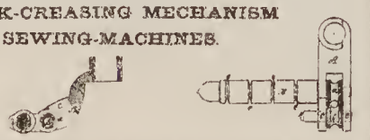
97,433, JOSHUA T. OWEN. RAILWAY-CAR WHEEL.



97,434, JOHN OWENS. METHOD OF WEAVING FABRICS.

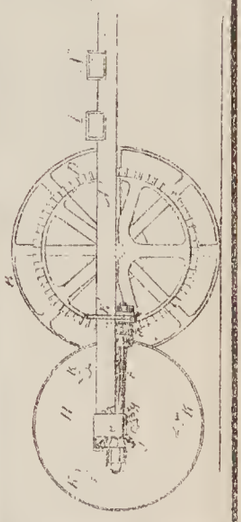


97,435, CHARLES PAGE. TUCK-CREASING MECHANISM FOR SEWING-MACHINES.

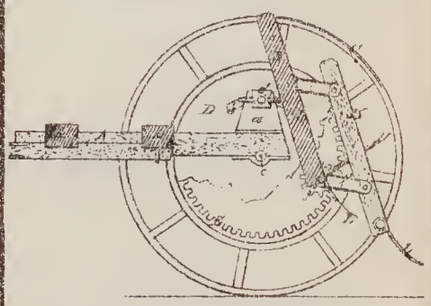


97,436, JOSEPH B. PEDRICK. GAUGE FOR WEATHER-BOARDING.

97,437, JOHN G. PERRY. HAY-TEDDER.

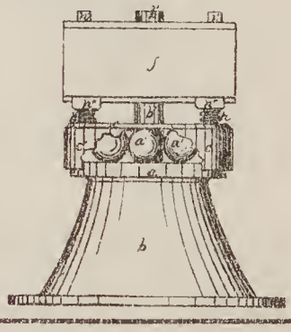


97,438, JOHN G. PERRY. HAY-TEDDER.

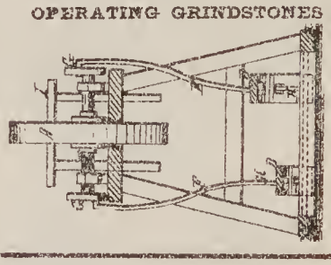


97,439, G. M. PETTEE. COMPOSITION FOR CLEANING MILLSTONES.

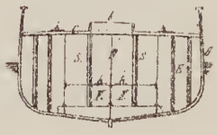
97,440, JOHN L. PIPER. TURN-TABLE.



97,441, HAMILTON PRAY. OPERATING GRINDSTONES.

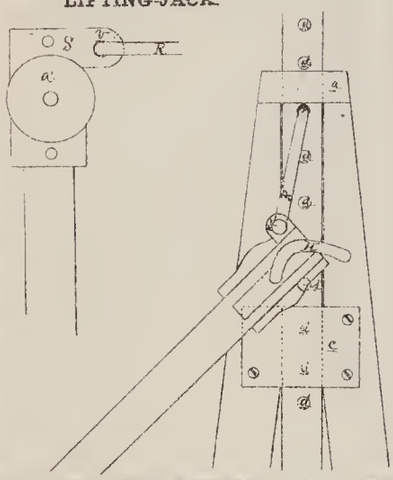


97,442, PASCAL A. QUINAN. SAILING-VESSEL FOR STORING AND TRANSPORTING PETROLEUM AND OTHER OILS.

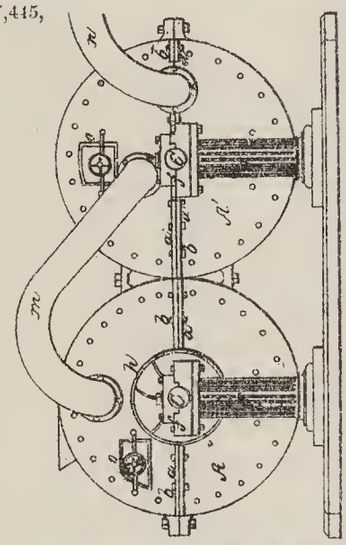


97,443, DAVID REYNOLDS.
HOLDER FOR CHECK-REINS.

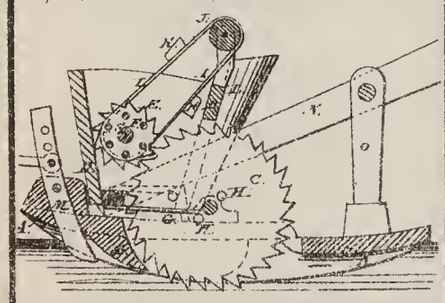
97,444, REUBEN M. REYNOLDS.
LIFTING-JACK.



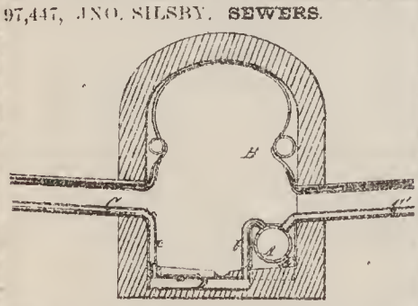
V. B. RYERSON.
MACHINES FOR PULVERIZING ORES AND ROCK.
97,445,



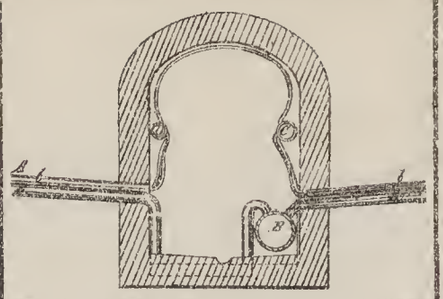
97,446, JOHN M. SHAW. **SEED-PLANTER**



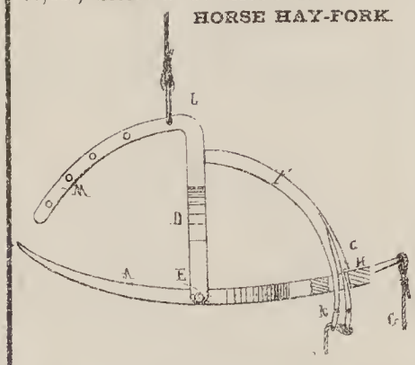
97,447, JNO. SILSBY. **SEWERS.**



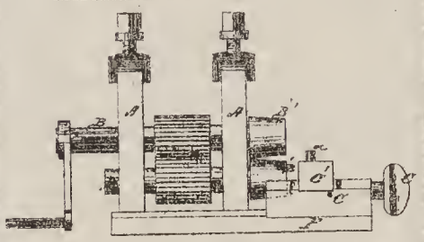
97,448, JNO. SILSBY
EXTERIOR CASINGS FOR SEWER, GAS, AND WATER-PIPES.



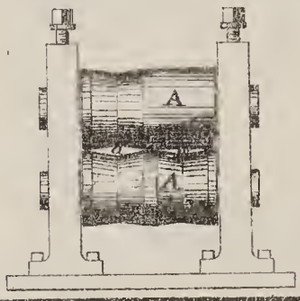
97,449, SAMUL G. SIMPSON.
HORSE HAY-FORK.



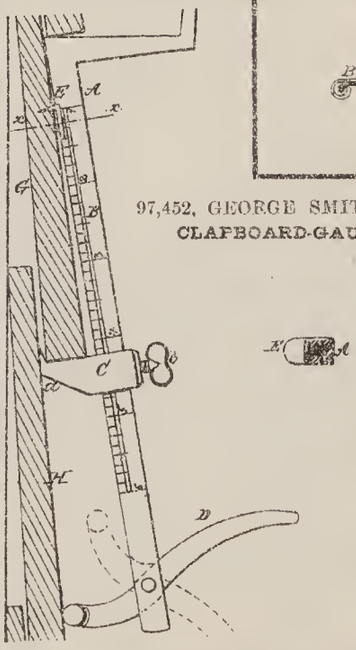
97,450, W. H. SINGER.
MACHINE FOR ROLLING METALS.



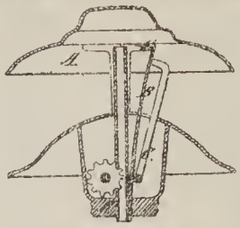
97,451, W. H. SINGER. **PLATE FOR BLANKS OF CULTIVATOR-TEETH.**



97,452, GEORGE SMITH.
CLAPBOARD-GAUGE.

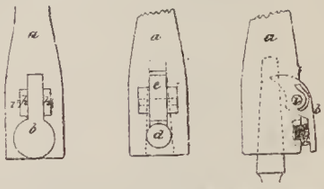


97,453, CHARLES P. SNOW.
LAMP-TRIMMER AND EXTINGUISHER

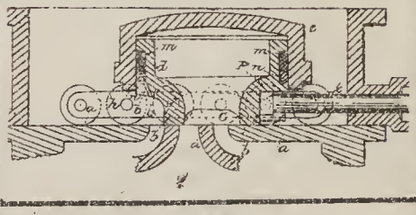


97,454, DANIEL SPILL. **DISSOLVING XYLOIDINE FOR USE IN THE ARTS.**

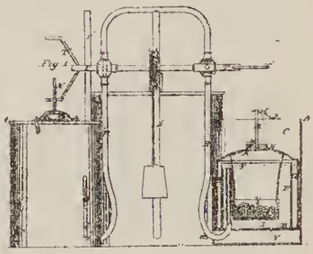
97,455, AUGUSTUS STANLEY.
BIT-STOCK.



97,456, MONROE STANNARD.
STEAM SLIDE-VALVE.



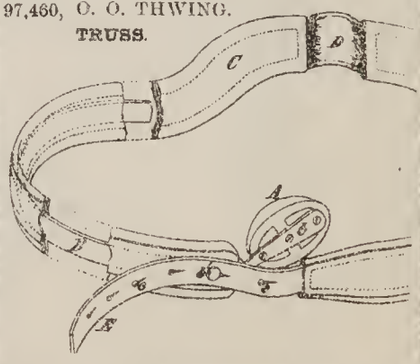
97,457, AMOS STEVENS.
APPARATUS FOR GENERATING AND CARBURETTING ILLUMINATING-GAS.



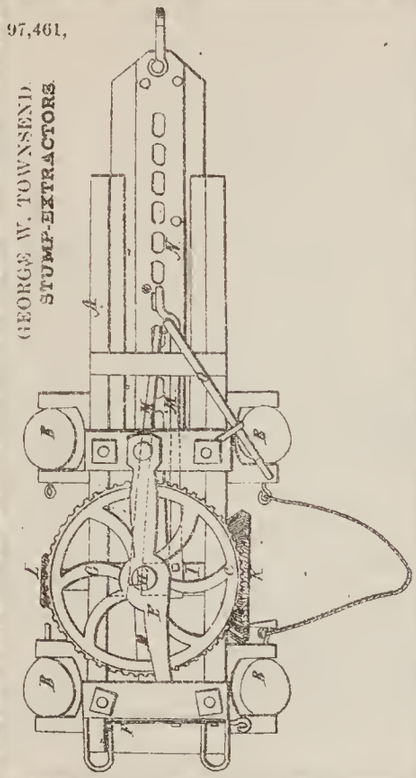
97,458, WM. A. SWEET.
ELLIPTIC SPRING.

97,459, A. AGNEW THOMSON.
MEDICAL COMPOUND.

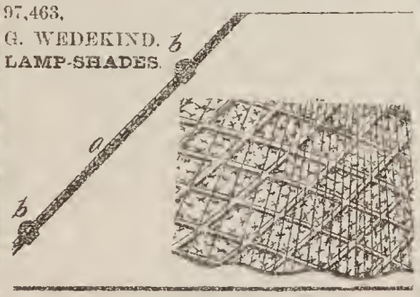
97,460, O. O. THWING.
TRUSS.



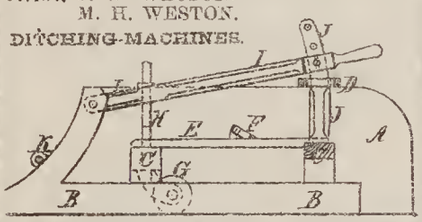
97,461, GEORGE W. TOWNSEND. STUMP-EXTRACTORS.



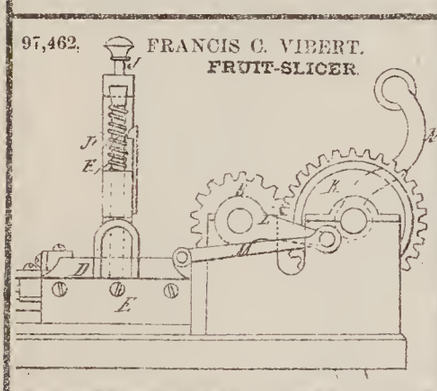
97,463, G. WEDEKIND. LAMP-SHADES.



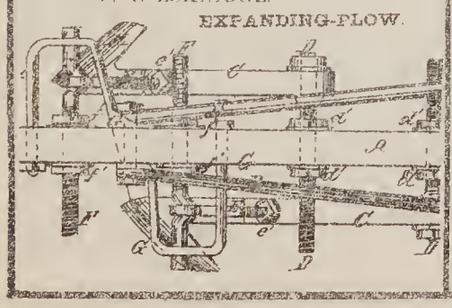
97,464, J. W. WESTON. M. H. WESTON. DITCHING-MACHINES.



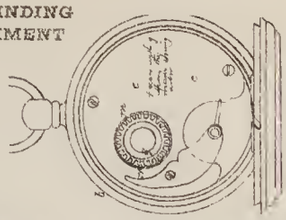
97,462, FRANCIS C. VIBERT. FRUIT-SLICER.



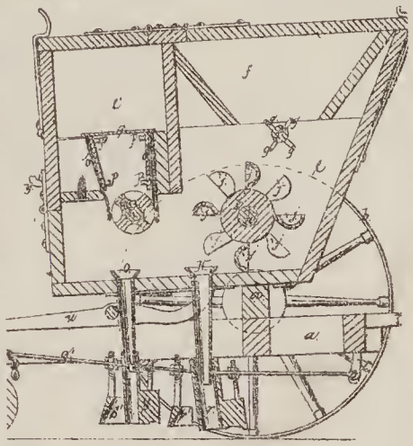
97,465, A. W. WILKINS. S. T. ESKRIDGE. EXPANDING-PLOW.



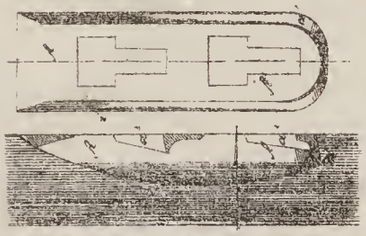
97,466, G. H. WILSON. WATCH-WINDING ATTACHMENT



97,467, THOMAS WILSON. COMBINED PLANTER AND CULTIVATOR

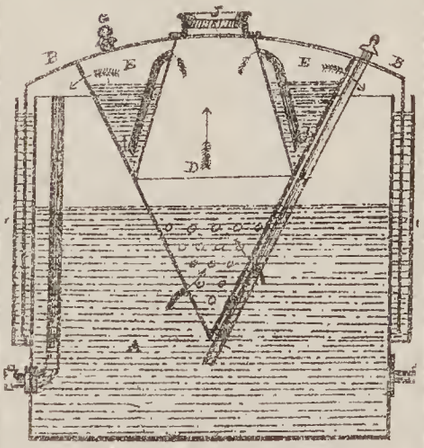


97,468, NICKOLAS ZINS. BEDSTEAD-FASTENING.

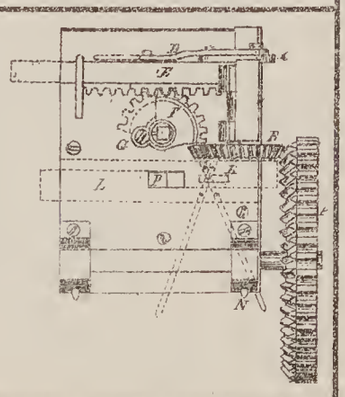


97,469, HENRY G. DAYTON. COMPOUND FOR DISINFECTING AND DEODORIZING.

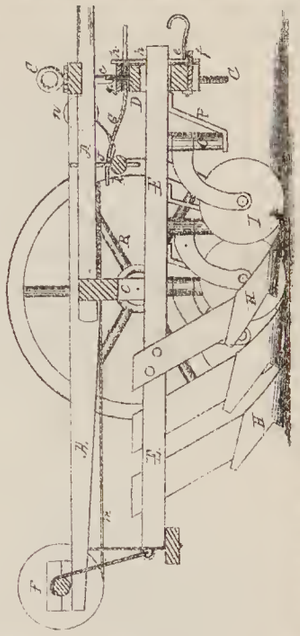
3,748, CLEAVELAND F. DUNDERDALE. APPARATUS FOR GENERATING AND CARBURETING GAS.



3,749, JOHN F. FISHER. GUANO-ATTACHMENT FOR SEED-DRILLS



3,750, THOS. J. HALL. GANG-PLOWS.



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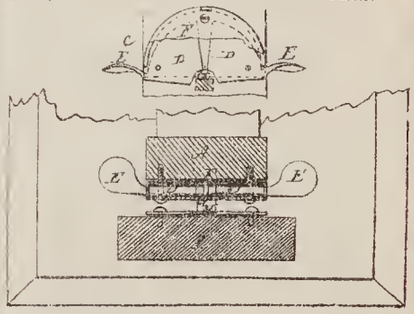
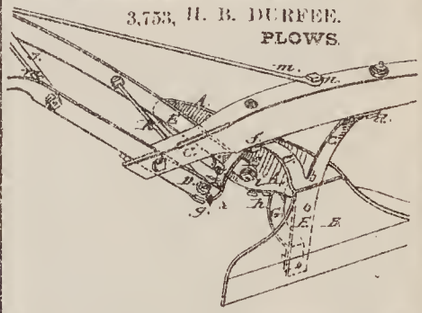


3,752, IRA WOOD. COMPOSITION OF LIQUIDS FOR TANNING.

3,753, H. B. DURFEE. PLOWS.



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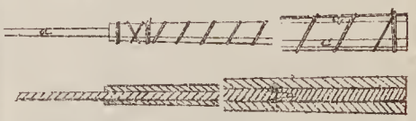
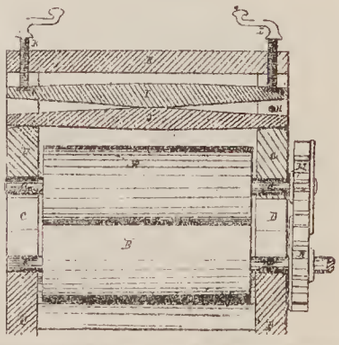


3,755, ALFRED M. BAILEY. JOHN O. COUCH. CLOTHES-WRINGER.



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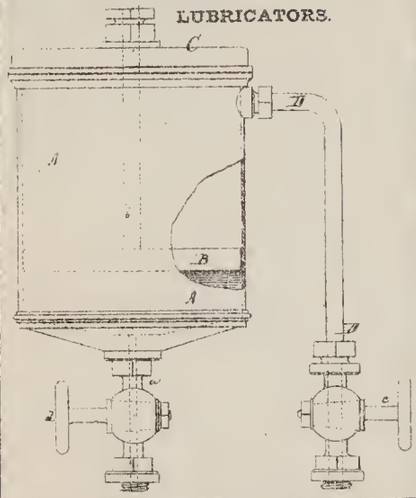
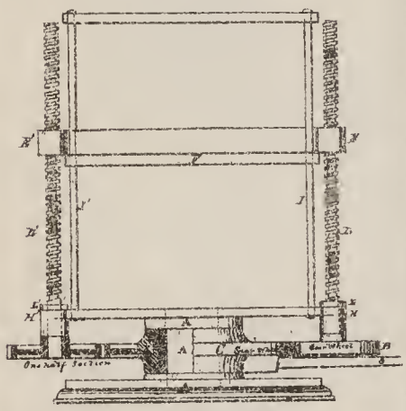
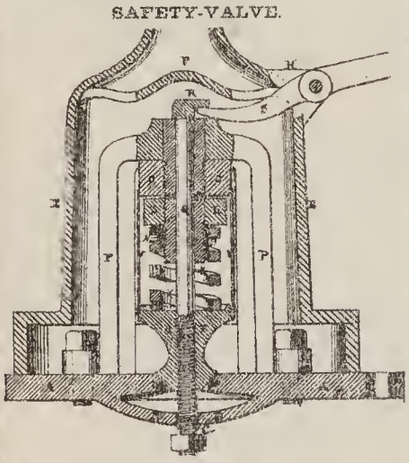
97,470. DAVID ADAMSON. **LUBRICATORS.**



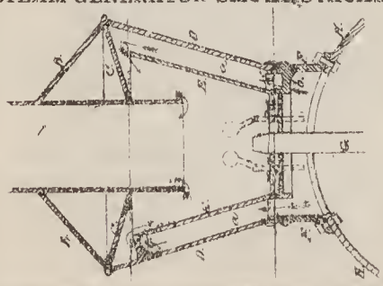
97,471, JAMES M. ALBERTSON. **BALING-PRESSES.**



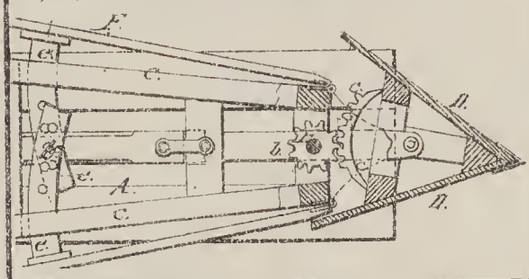
97,472, HENRY ASHFIELD. **SAFETY-VALVE.**

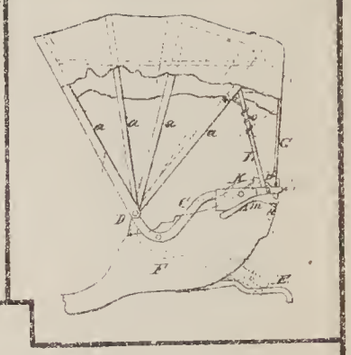


97,473, W. F. BEECHER. **STEAM-GENERATOR SMOKE-STACKS**

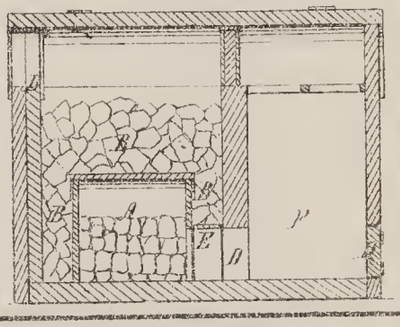


97,474, GOTTLIEB BEER. **SNOW-PLOW**





97,475, HARRISON BLACKBURN. **THE CONSTRUCTION OF PRESERVING-HOUSES.**



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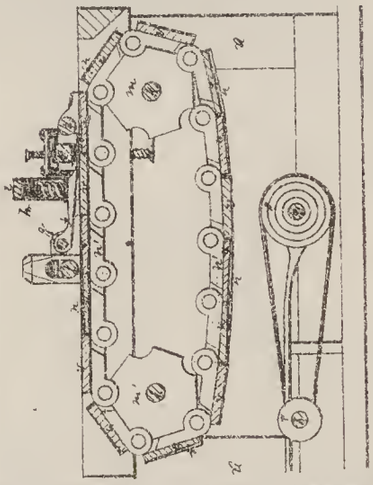
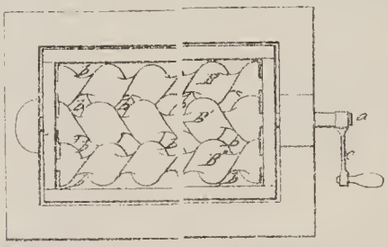


97,477 EDWARD CARD STOVE-GRATE



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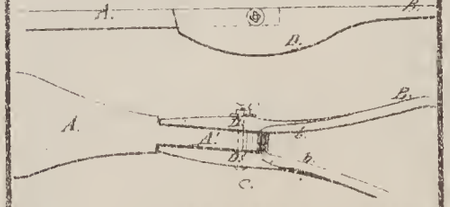
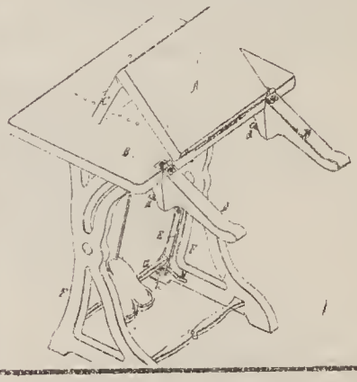


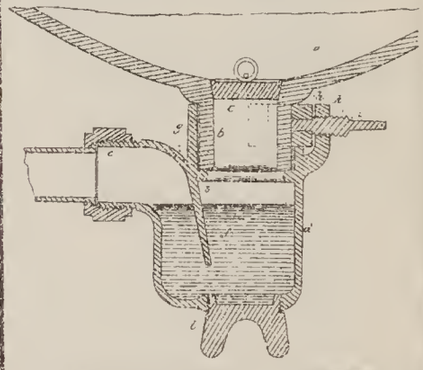
97,479, A. MORRELL CORY. **BUGGY-TOP.**

97,480. R. A. COWELL. **PUSHING-JACKS FOR RAILROAD-CARS**

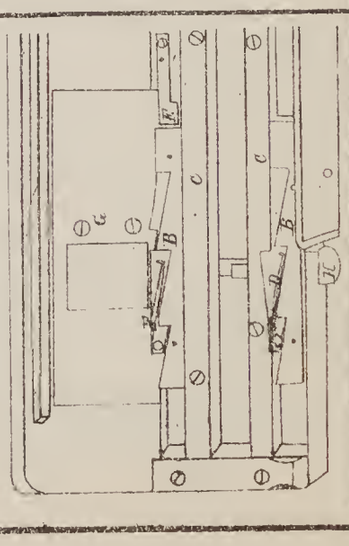
97,481, HENRY COWGILL. **SEWING-MACHINE TABLES**



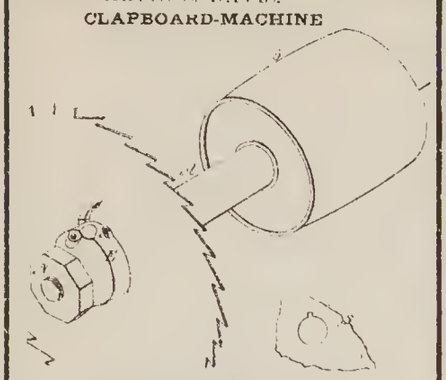
97,482. H. H. CRAIGIE. **BASIN-TRAP**



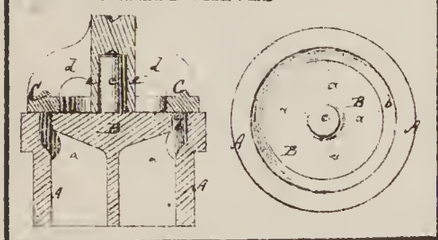
97,483. BIRAM C. DAVIS. **POST-OFFICE LETTER-BOX.**



97,484. CALVIN S. DAVIS.
CLAPBOARD-MACHINE



97,485. WALTER DAWSON.
SAFETY-VALVES.



97,486. JULIUS DOLLMANN.
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COMPOUND FOR LINING TEXTILE HOSE.

97,487. WILLIAM DYATT.
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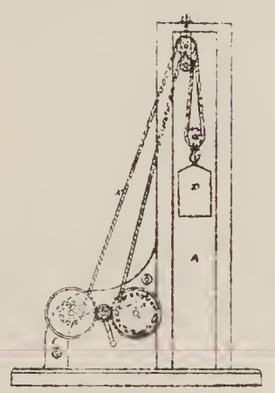

97,488. JAMES EDGAR.
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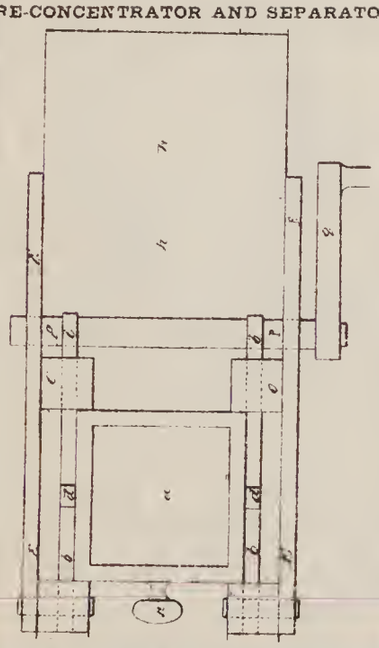

97,489. WILLIAM EDSON.
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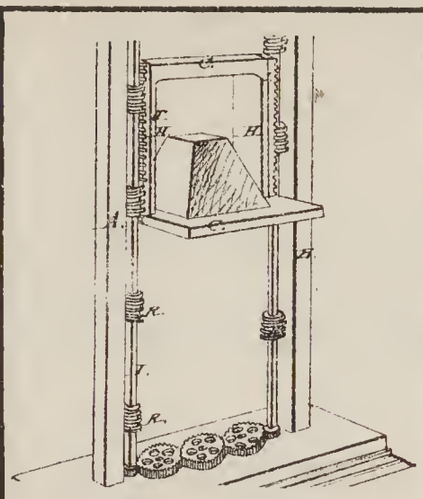
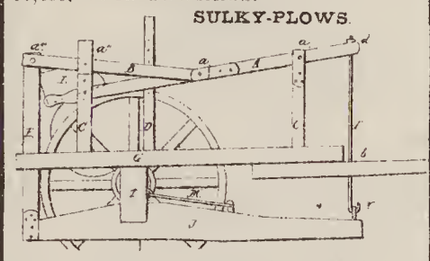
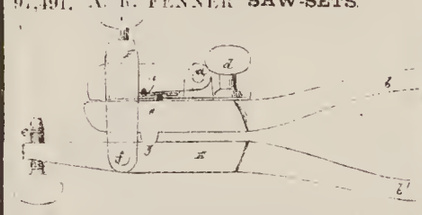


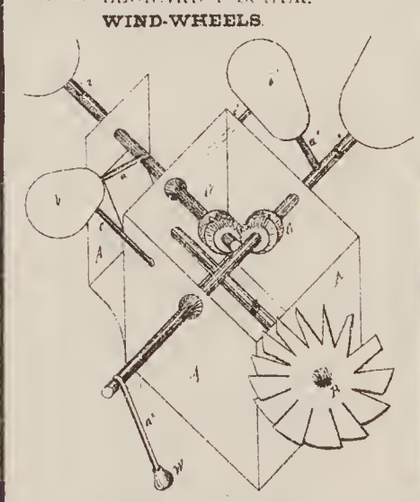
97,490. C. A. EDWARDS.
SULKY-PLOWS.



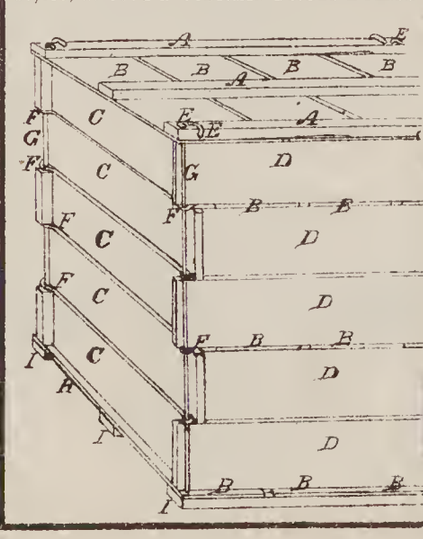
97,491. A. R. FENNER. **SAW-SETS.**



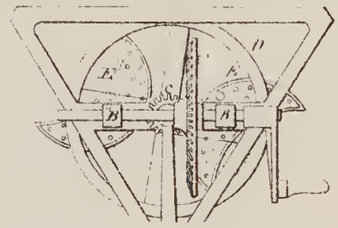
97,492. LEONARD FISCHER.
WIND-WHEELS.



97,493. J. HYDE FISHER. **FRUIT-BOXES.**



97,494. CALVIN H. FITCH.
MACHINE FOR POLISHING STONE.



97,495. **EARTH-CLOSETS.**
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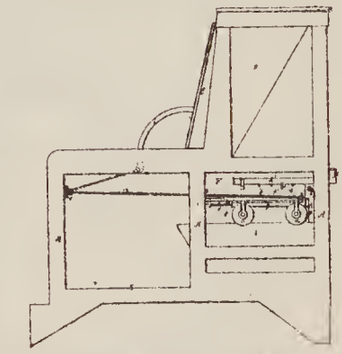

97,496. THEODOTUS GARLICK.
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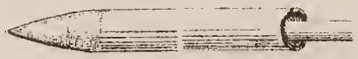

97,497. JAMES GEE.
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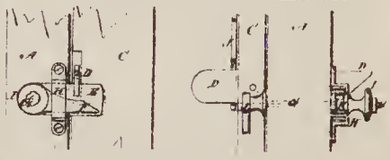
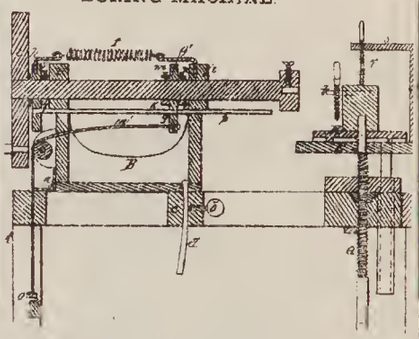
97,498. RUDOLPH GESELBRACHT.
FREDERICK FREY. **LATCH.**



97,499. FREDERICK M. GIBSON.
BORING-MACHINE.



97,500. DENNIS HENRY GLEESON.
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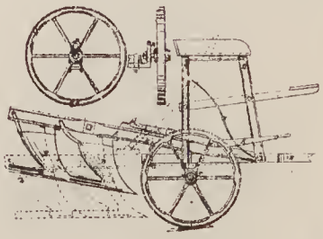

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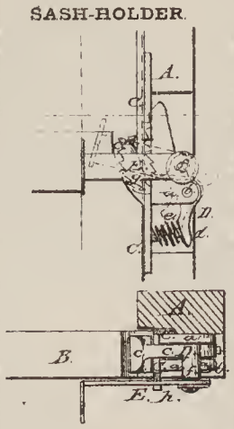
97,502. CHAS. H. ENSIGN, ARTHUR FRANCIS GREGORY. SASH-HOLDER.



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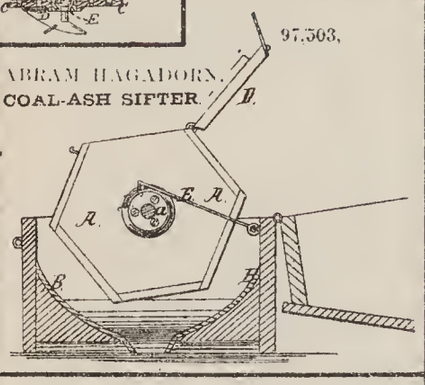

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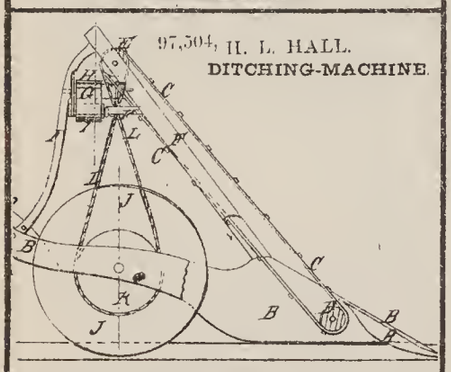
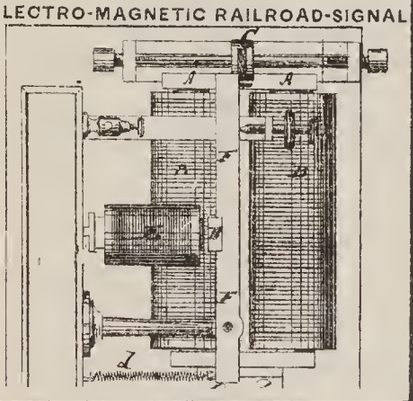


97,505. THOMAS S. HALL. ELECTRO-MAGNETIC RAILROAD-SIGNAL



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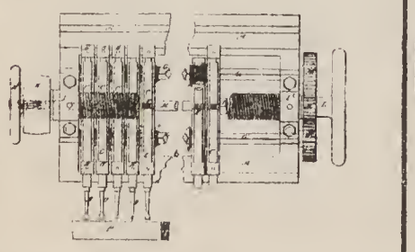
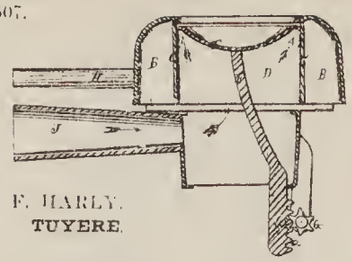


97,507. J. F. HARLY. TUYERE.



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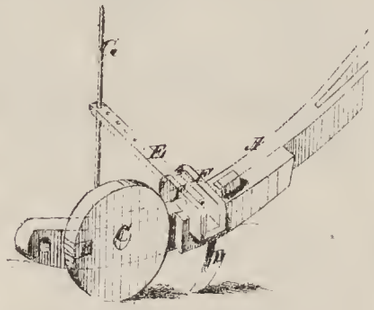

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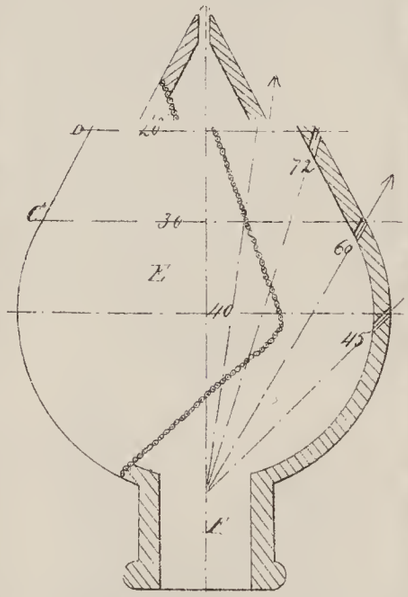
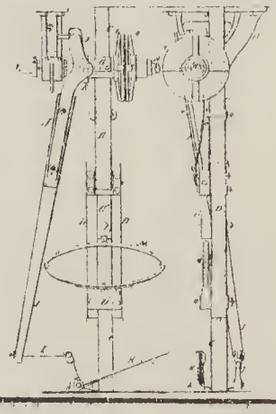
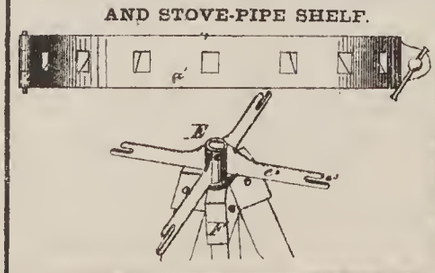


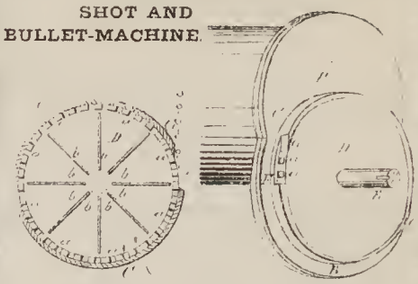
97,510. GEO. HOPSEN. MACHINE FOR TESTING SPRINGS.



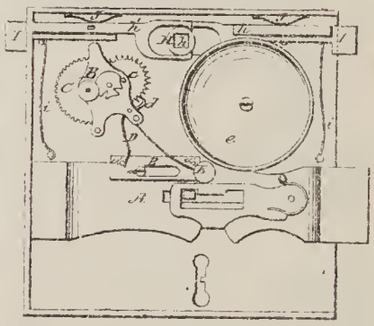
97,511, G. E. HOYT. CLOTHES-DRIER AND STOVE-PIPE SHELF.



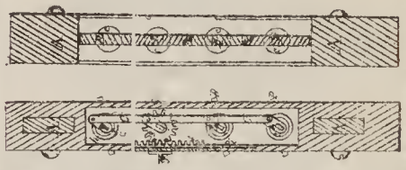
97,512. EDWARD A. HYDE. SHOT AND BULLET-MACHINE.



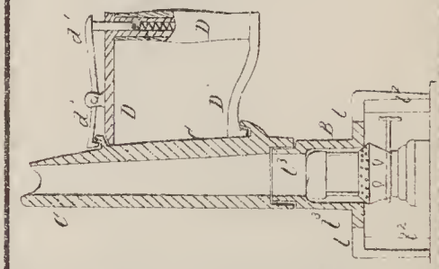
97,513, BENJAMIN F. IRVINE, THOMAS A. HITCHCOCK. ALARM-LOCK.



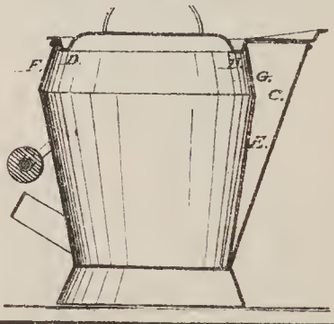
97,514, AMOS A. JAQUA. WINDOW-BLIND.



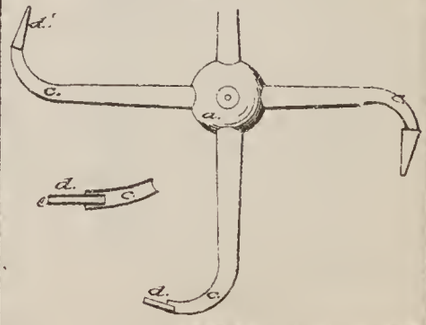
97,515, JAMES JENKINSON. SAD-IRON HEATER.



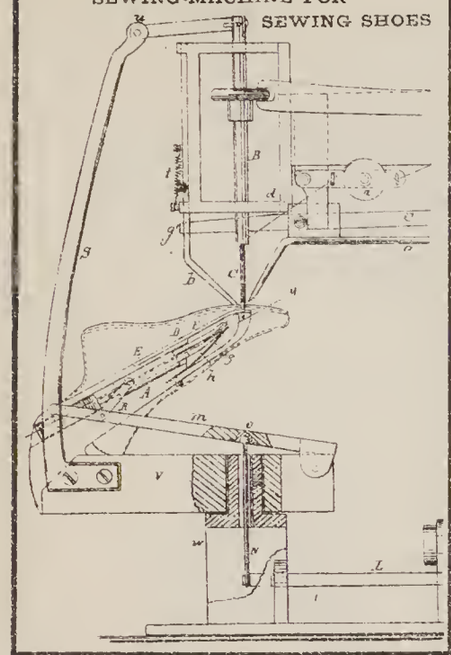
97,516, JOHN S. JENNINGS. CHAMBER-PAILS.



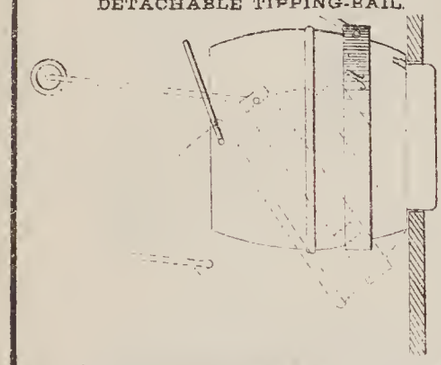
97,517, WESLEY L. JUKES. GAS-BURNER.

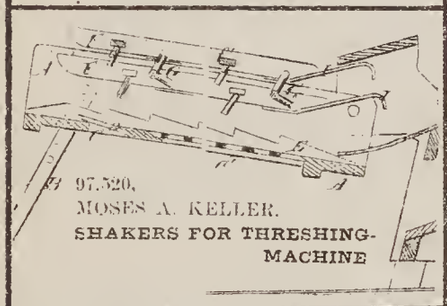


97,518. JEREMIAH KEITH.
SEWING-MACHINE FOR SEWING SHOES



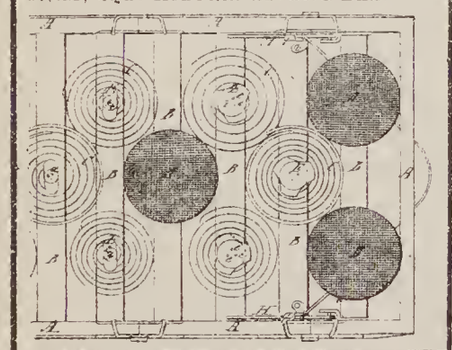
97,519. J. KEITH.
DETACHABLE TIPPING-RAIL.



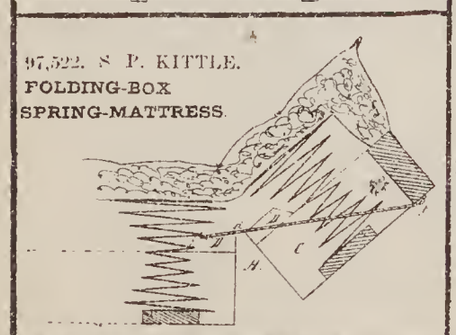


97,520.
MOSES A. KELLER.
SHAKERS FOR THRESHING-MACHINE

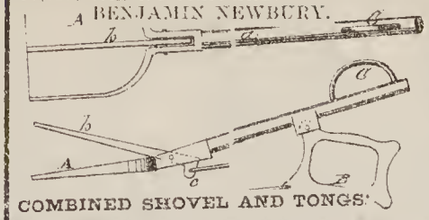
97,521. S. P. KITTLE. SPRING-BED.



97,522. S. P. KITTLE.
FOLDING-BOX SPRING-MATTRESS.

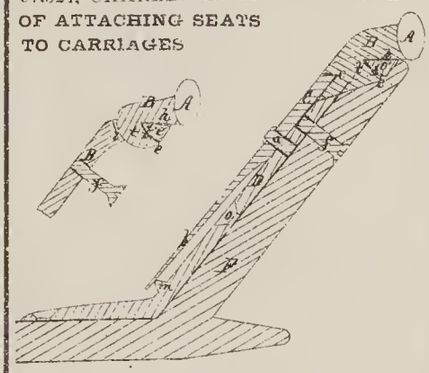


97,523. HENRY KLIPERD.
BENJAMIN NEWBURY.

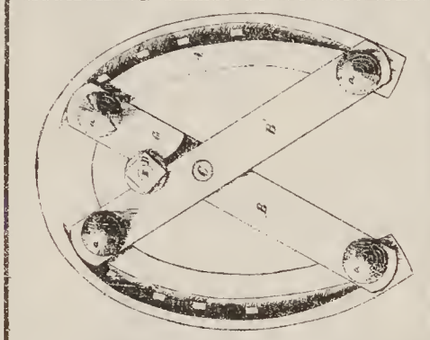


COMBINED SHOVEL AND TONGS.

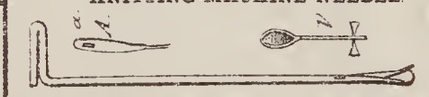
97,524. CHARLES KREBS. THE MODE OF ATTACHING SEATS TO CARRIAGES



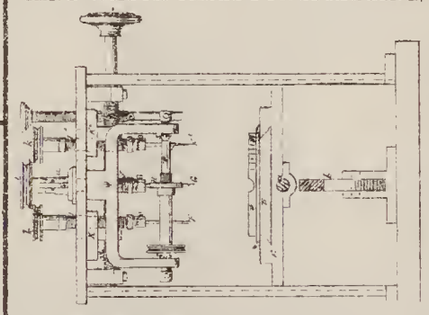
97,525. PERLEY LAFLIN.
ATTACHING CALKS TO HORSESHOES.



97,526. J. H. LANE. C. D. HOUSE.
KNITTING-MACHINE NEEDLE.

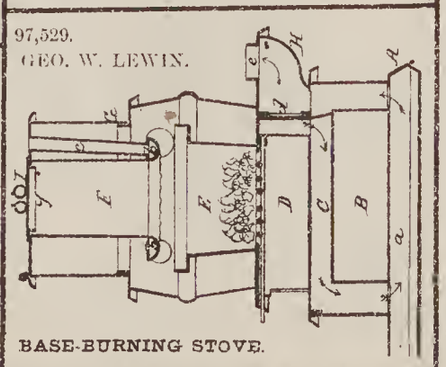


97,527. JACQUES LAURENT.
MACHINE FOR DRILLING AND PREPARING WATCH-CASES FOR SPRINGING.



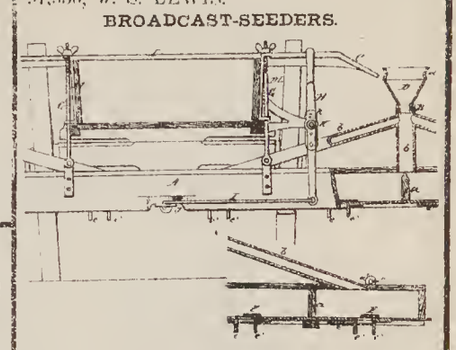
97,528. SAMUEL LENHER.
H. H. SPENCER.
MODE OF PREPARING PAPER FOR PRINTING POSTAGE AND REVENUE-STAMPS.

97,529.
GEO. W. LEWIN.

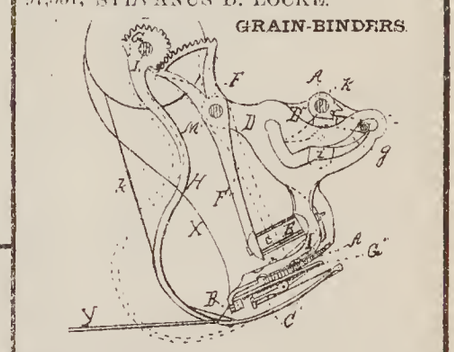


BASE-BURNING STOVE.

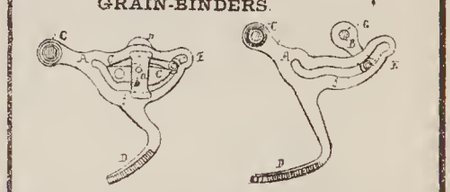
97,530. J. S. LEWIS.
BROADCAST-SEEDERS.



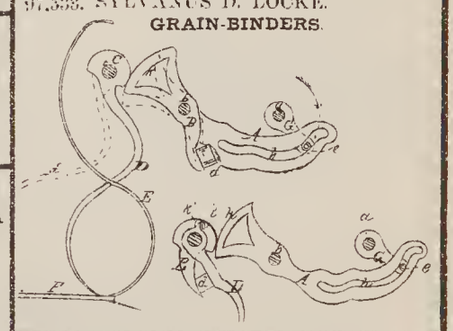
97,531. SYLVANUS D. LOCKE.
GRAIN-BINDERS.



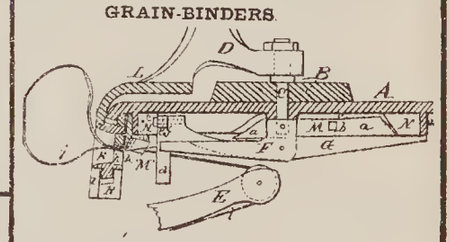
97,532. SYLVANUS D. LOCKE.
GRAIN-BINDERS.



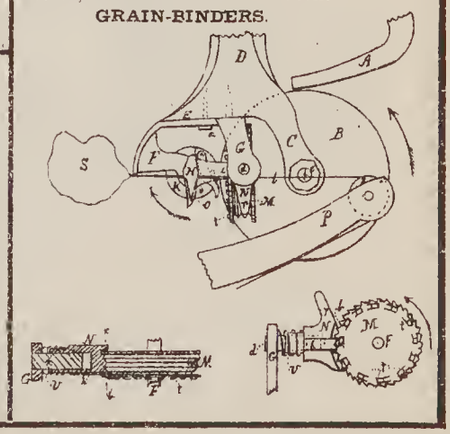
97,533. SYLVANUS D. LOCKE.
GRAIN-BINDERS.



97,534. SYLVANUS D. LOCKE.
GRAIN-BINDERS.



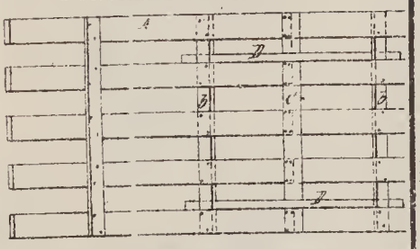
97,535. SYLVANUS D. LOCKE.
GRAIN-BINDERS.



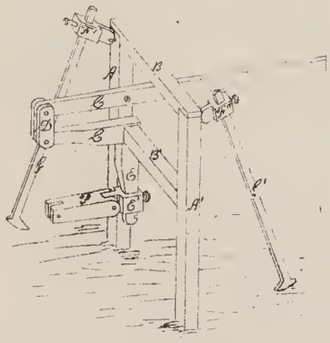
97,536, SYLVANUS D. LOCKE.
GRAIN-BINDERS.

97,537, JOHN LOGAN,
D. W. ELDREDGE.
METALLIC CARTRIDGES.

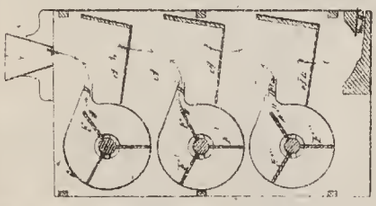
97,538, ARTHUR LOVE.
PORTABLE FENCE.



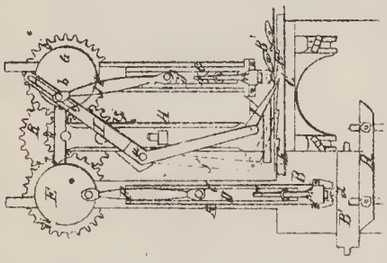
97,539, PATRICK MAGEE.
SAWING-MACHINE.



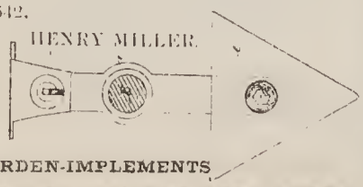
97,540, JOHN JACOB MÄRKL, COOLER
FOR BEER AND OTHER LIQUIDS.



97,541, GODLIP MEYER, MACHINE FOR
WIRING BLIND-RODS AND SLATS.

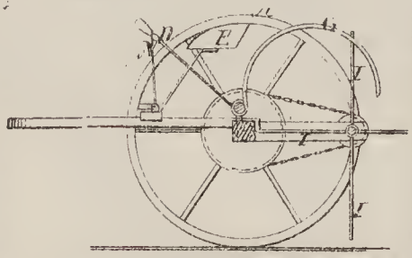


97,542,
HENRY MILLER.

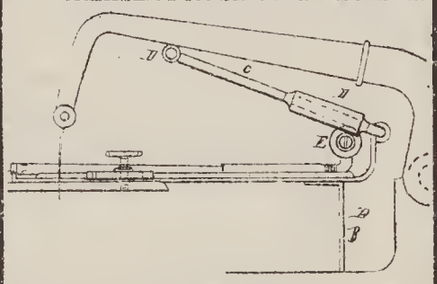


GARDEN-IMPLEMENTS.

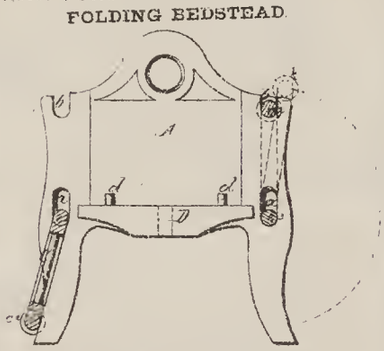
97,543, JOHN C. MILLS.
HAY-RAKE AND TEDDER.



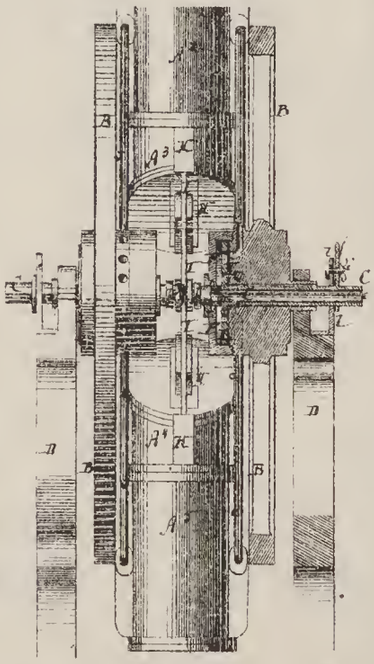
97,544, JOHN H. MOONEY, TUCK-
CREASER FOR SEWING-MACHINE.



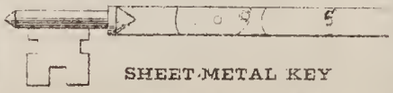
97,545, JOHN MÜLLER.
FOLDING BEDSTEAD.



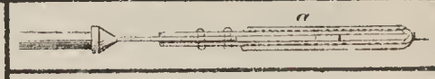
97,546, H. OLNEY.
ROTARY STEAM-ENGINE.



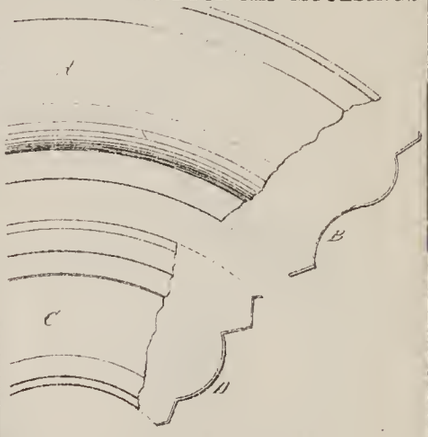
97,547, EMERY PARKER.



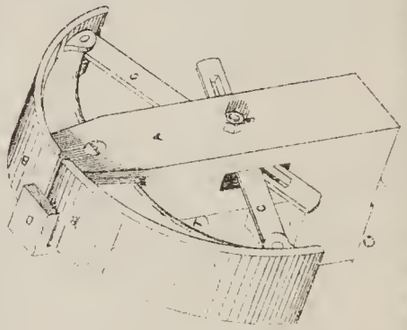
SHEET-METAL KEY.



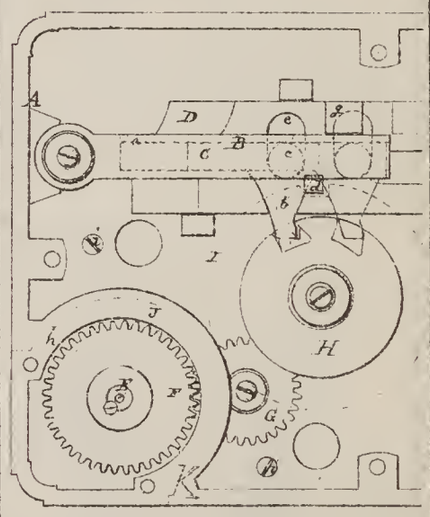
97,548, JOSEPH PARKIN,
JAMES H. SMITH.
WINDOW AND DOOR-CAP MOULDINGS.



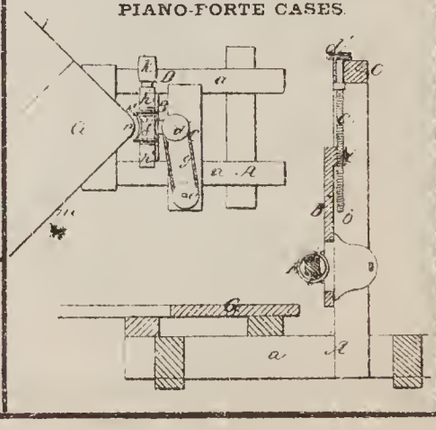
97,549, GEORGE S. PIERCE.
DEVICE FOR FORMING BOILERS.



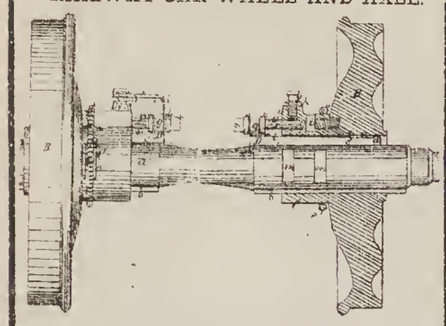
97,550, OLIVER E. PILLARD.
PERMUTATION-LOCKS.



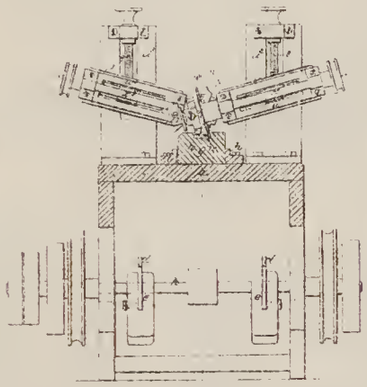
97,551, SAWYER PORTER.
MACHINERY FOR MAKING
PIANO-FORTE CASES.



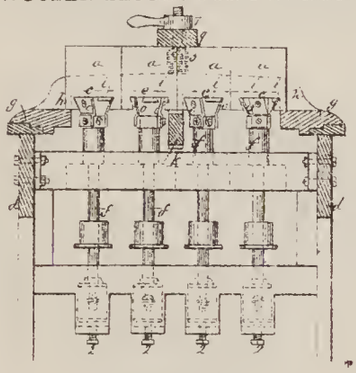
97,552, PERLEY PUTNAM.
RAILWAY-CAR WHEEL AND AXLE.



97,553, WM. O. ROBBINS.
C. W. STAFFORD. MACHINE FOR PREPARING PAVING-BLOCKS.

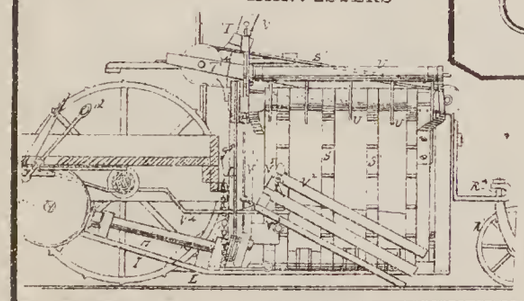


97,554, WM. O. ROBBINS.
C. W. STAFFORD.
MACHINERY FOR PREPARING WOODEN BLOCKS FOR PAVEMENT.

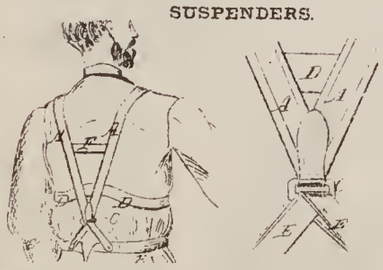


97,555, N. T. P. ROBERTSON
THOMAS NILES.
COMPOUND FOR DESTROYING INSECTS

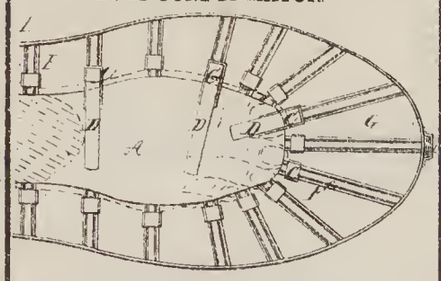
97,556, A. SHELINE. E. BURKE.
HARVESTERS



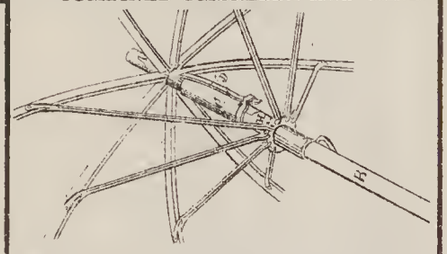
97,557, ABRAHAM SHENFIELD.
SUSPENDERS.



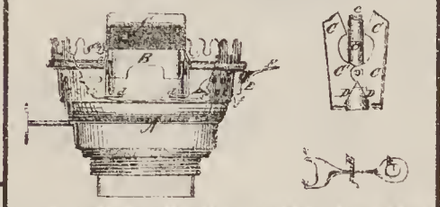
97,558, S. W. SHOREY.
BOOT-CONFORMATOR.



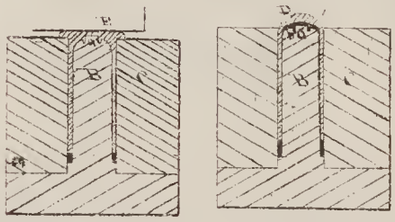
97,559, ADDISON SMITH.
COMBINED UMBRELLA AND CANE.



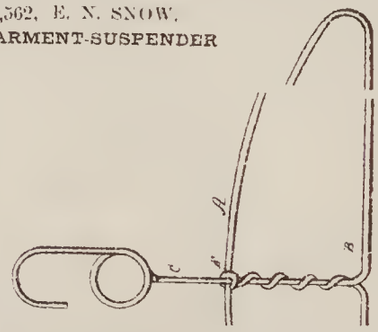
97,560, CYRUS SMITH. SAFETY-LAMP.



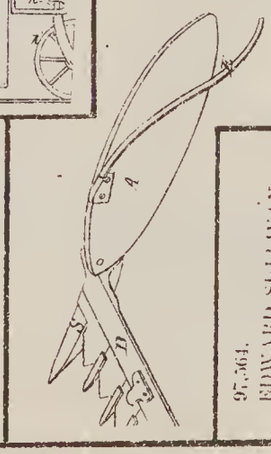
97,561, DEXTER SMITH. THE MANUFACTURE OF CARTRIDGE-SHELLS.



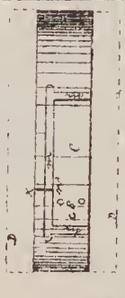
97,562, E. N. SNOW.
GARMENT-SUSPENDER



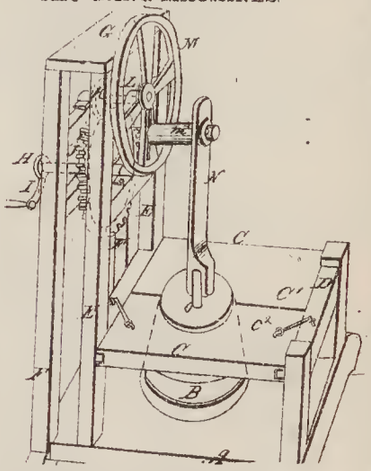
97,563, PRATT A. SPICER.
TRACK-CLEARER FOR MOWING-MACHINES.



97,564, EDWARD SULLIVAN.
PISTON-PACKING.



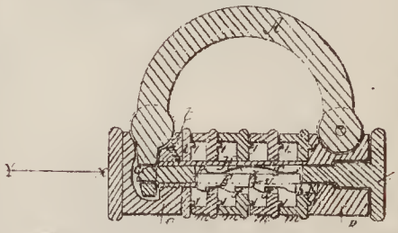
97,565, D. G. TAYLOR.
CHURNING-MACHINES.



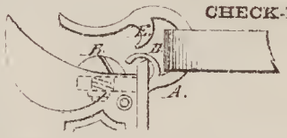
97,566, THOMAS TAYLOR.
EXPLOSIVE COMPOUND FOR USE IN FIRE-ARMS, BLASTING.

97,567, THOMAS TAYLOR.
GUNPOWDER.

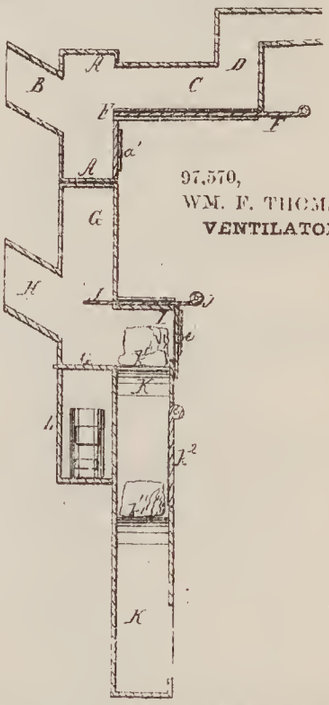
97,568, M. P. THATCHER.
COMBINATION-PADLOCKS.



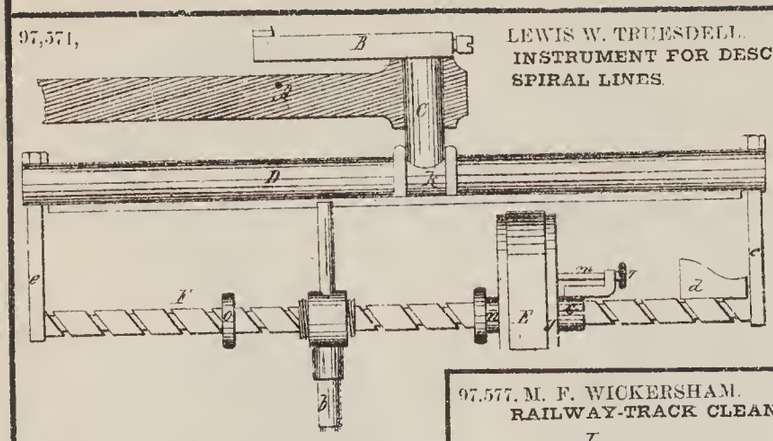
97,569, GEORGE THEOBALT.
CHECK-HOOK.



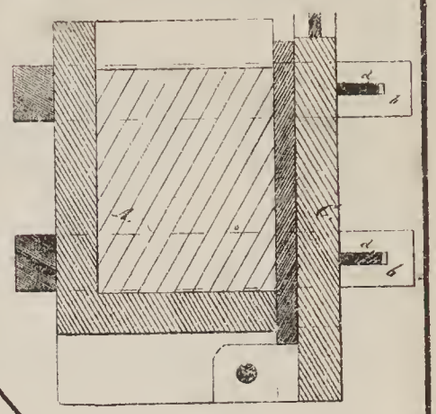
97,570,
WM. F. THOMS.
VENTILATOR.



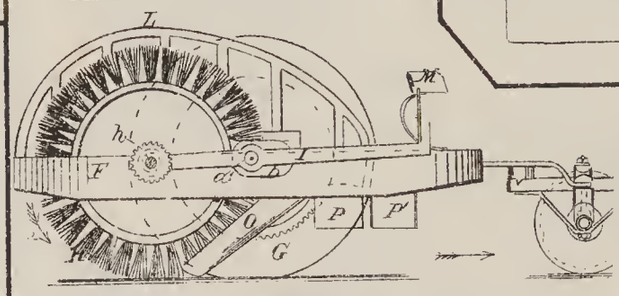
97,571, LEWIS W. TRUESDELL. INSTRUMENT FOR DESCRIBING SPIRAL LINES.



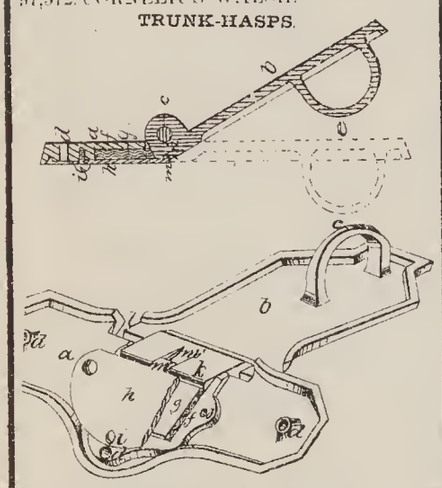
97,582, JOHN ABSTERDAM. MANUFACTURE OF STEEL



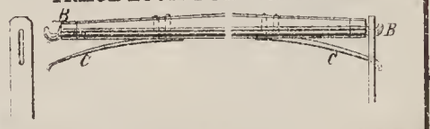
97,577, M. F. WICKERSHAM. RAILWAY-TRACK CLEANER.



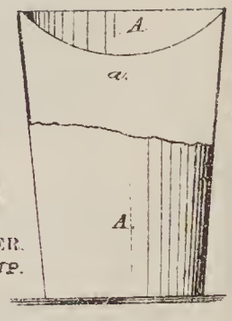
97,572, CORNELIUS WALSH. TRUNK-HASPS.



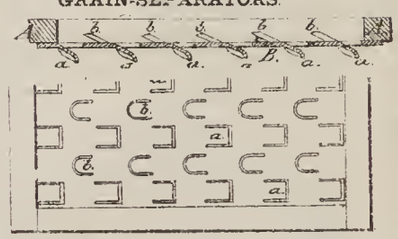
97,578, SAMUEL P. WILLIAMS. TRACE-LOCK FOR WHIFFLETREES.



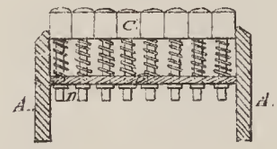
97,583, BERNHARD ADLER. DRINKING-CUP.



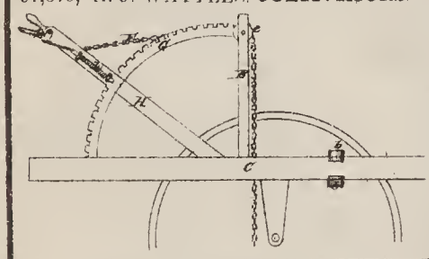
97,584, J. R. ALLEN. GRAIN-SEPARATORS.



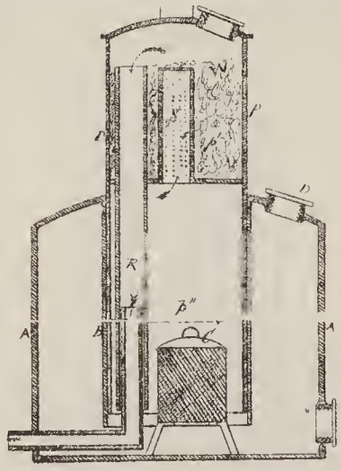
97,579, FREDERICK WITTRAM. SEAT FOR CHAIRS, SOFAS, &c.



97,573, H. J. WATTLES. CULTIVATORS.

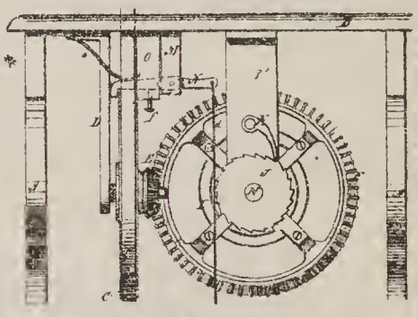


97,580, JOSEPH S. WOOD. GENERATING HYDROGEN AND HYDROCARBON-GAS.

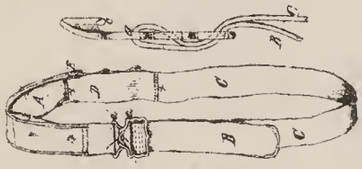


97,585, WM. W. ALLMAND. PACKING FOR STUFFING-BOXES.

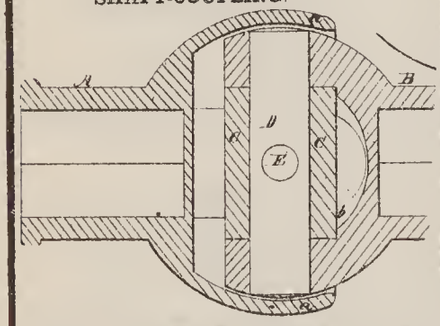
97,586, JAMES B. AYER. DRIVING-MECHANISM FOR SEWING-MACHINES.



97,574, MARTIN WESSON. SURCINGLE.

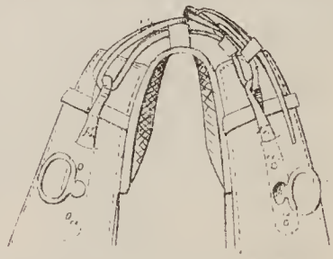


97,575, SETH WHEELER. SHAFT-COUPLING.

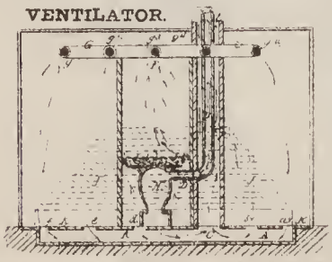


97,581, THOS. B. WORRELL. THOS. WALKER. LOCKS.

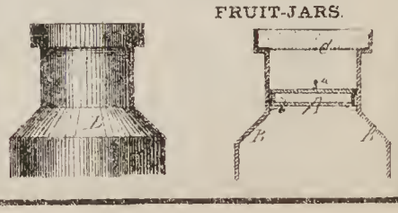
97,587, W. M. BAKER. HORSE-COLLAR



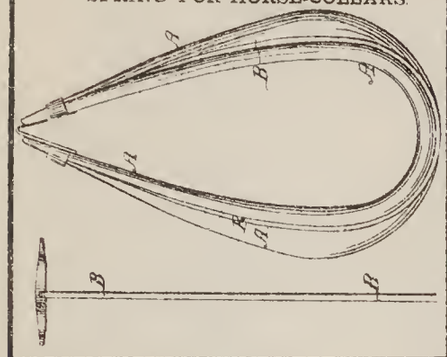
97,576, CHARLES F. WHORF. VENTILATOR.



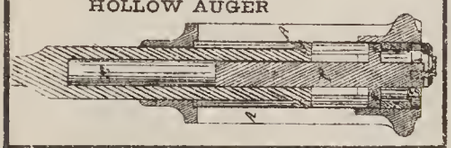
97,588, THOS. J. BARGIS. JNO. C. UNDERWOOD. FRUIT-JARS.



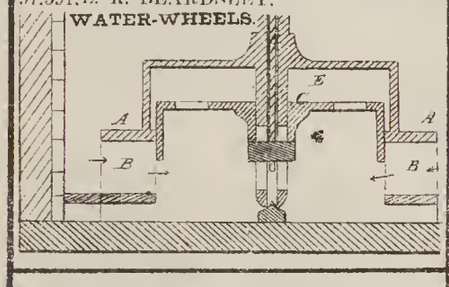
97,589, BENJAMIN J. BARTON.
ROSWELL J. STANLEY.
SPRING FOR HORSE-COLLARS.



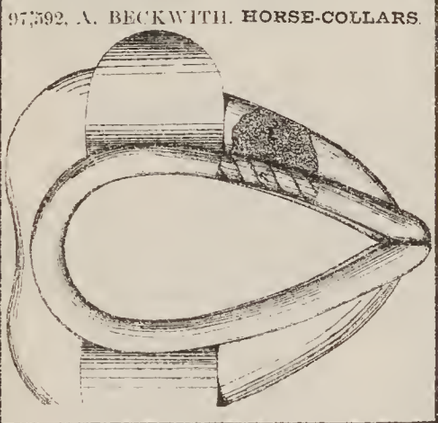
97,590, H. T. BEAM.
JOSEPH C. FREEMAN.
D. B. MILLS.
HOLLOW AUGER



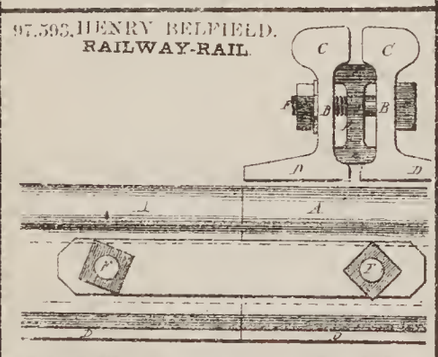
97,591, E. R. BEARDSLEY.
WATER-WHEELS.



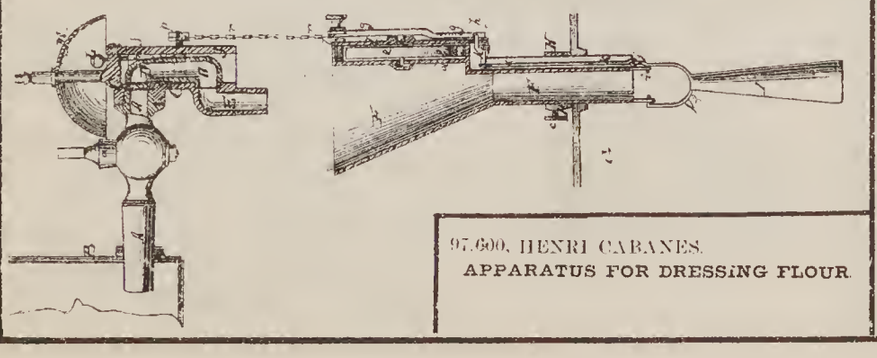
97,592, A. BECKWITH. **HORSE-COLLARS.**



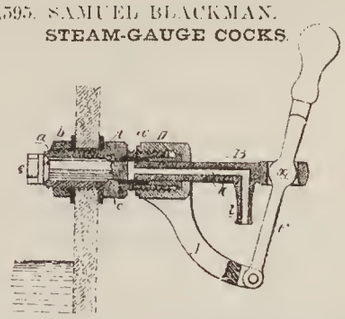
97,593, HENRY BELFIELD.
RAILWAY-RAIL.



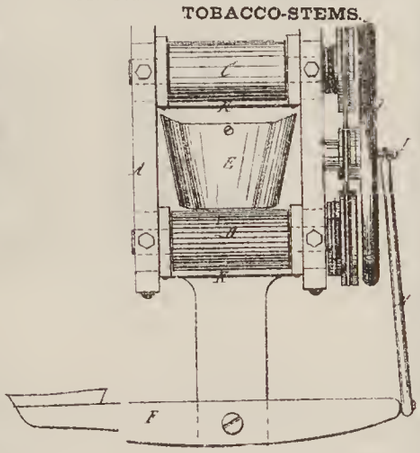
97,594, THOS. M. BIDDLE.
ALARM-FAUCETS.



97,595, SAMUEL BLACKMAN.
STEAM-GAUGE COCKS.

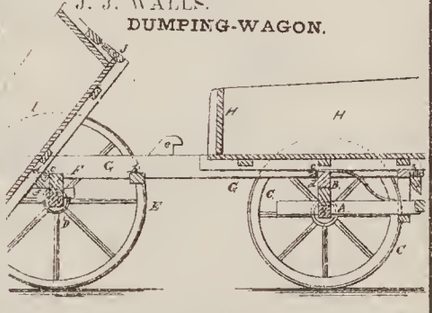


97,596, NICHOLAS H. BOPGFELDT.
MACHINE FOR PREPARING TOBACCO-STEMS.

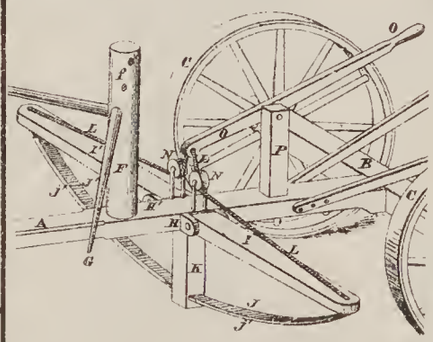


97,597, JULIUS BRÖNNER.
HERMANN GUTZKOW.
PROCESS OF TREATING ASPHALTUM TO OBTAIN COLORS AND DYES.

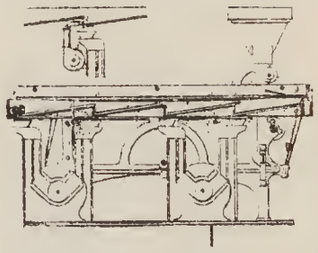
97,598, J. G. BURWELL.
J. J. WALLS.
DUMPING-WAGON.



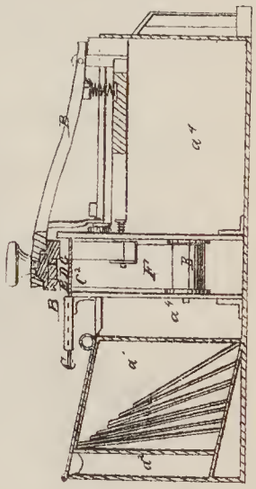
97,599, JOHN F. BYLAND.
CORN-HARVESTER.



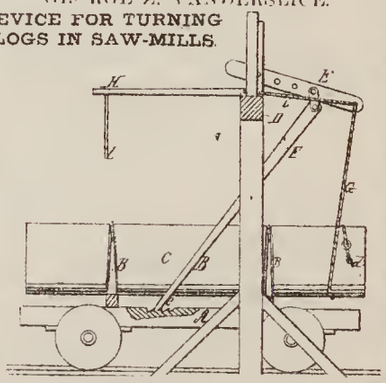
97,600, HENRI CABANES.
APPARATUS FOR DRESSING FLOUR.



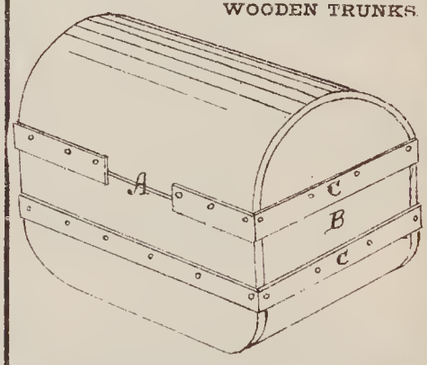
97,601, C. A. CHAMBERLIN.
RAILROAD-TICKETS.



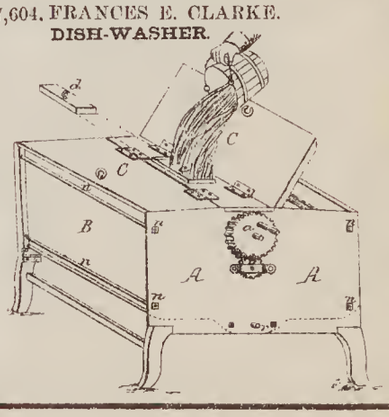
97,602, BELA L. CHURCHILL,
GEORGE Z. VANDERSLICE.
DEVICE FOR TURNING LOGS IN SAW-MILLS.



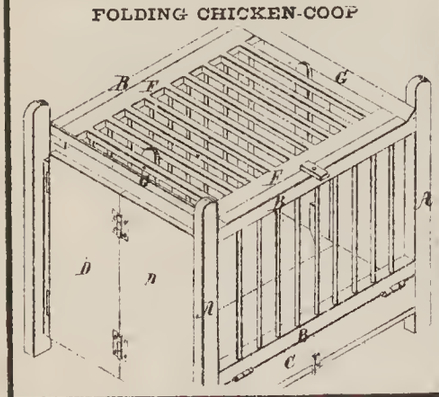
97,603, D. J. CLARK.
W. F. DOGGETT.
S. M. BURR.
WOODEN TRUNKS.



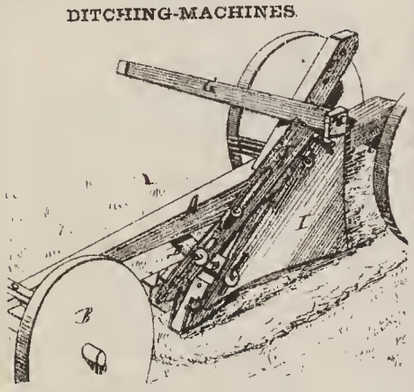
97,604, FRANCES E. CLARKE.
DISH-WASHER.



97,605, GEORGE EDWARD CLEETON.
FOLDING CHICKEN-COOP

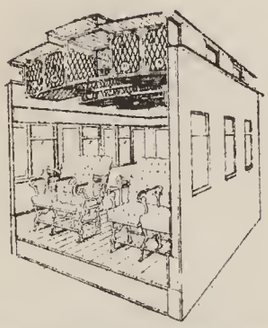


97,606, WILLIAM CLINE.
DITCHING-MACHINES.

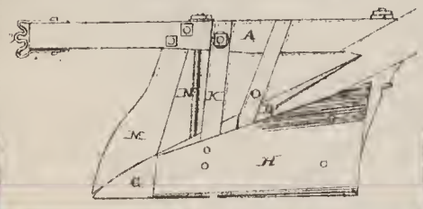


97,607, PAUL COUSIN.
PIERRE OURY. **PROCESS FOR DECORATIVE OIL-PAINTING.**

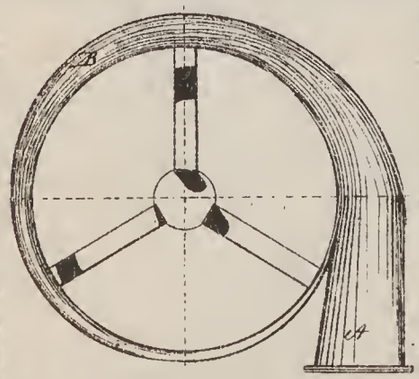
97,608, WALWORTH D. CRANE.
RAILWAY-CAR.



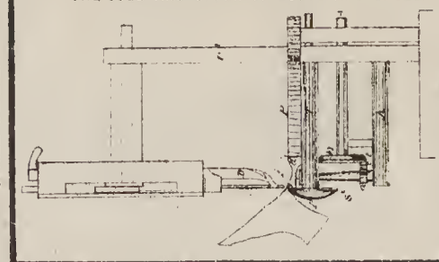
97,609, CHARLES CROW. **PLOWS.**



97,610, HOMER H. CUMMINGS.
WATER-WHEEL SCROLL-CHUTES.



97,611, JOHN CUTLAN, MACHINE FOR SEWING THE SOLE AND UPPER OF BOOTS AND SHOES.



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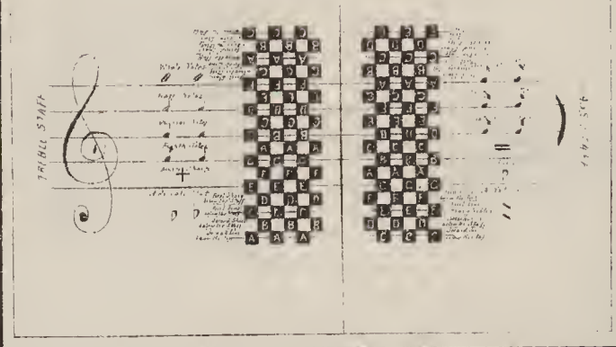
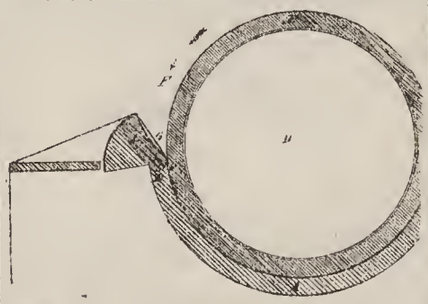
MUSICAL GAME.



97,613, DECLAT. **APPARATUS FOR TREATING CROUP AND OTHER DISEASES.**

97,614, J. DECOUDUN.
MACHINE FOR IRONING AND STIFFENING LINEN AND OTHER FABRICS.



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JOHN SLATCHER.
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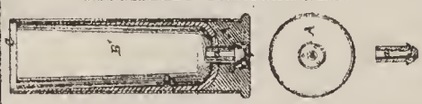

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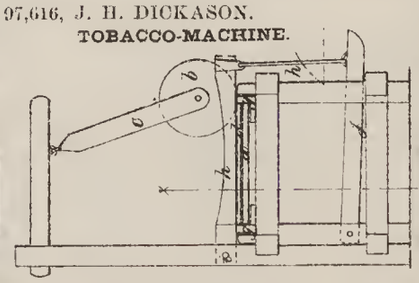
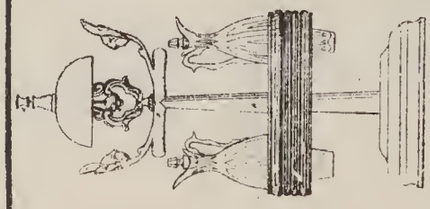
TOBACCO-MACHINE.



97,617, HENRY A. DIERKES. **COMBINED CALL-BELL AND TABLE-CASTER.**



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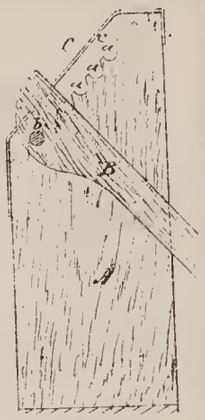
WM. S. DOUGLASS.
CARRIAGE-JACK.



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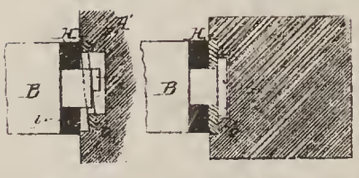
DANIEL E. DUGAN.
BEDSTEADS.



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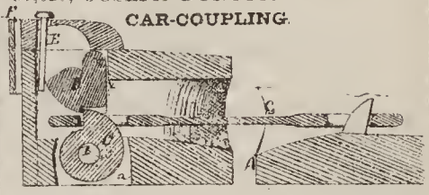
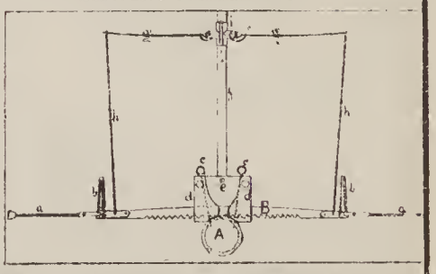
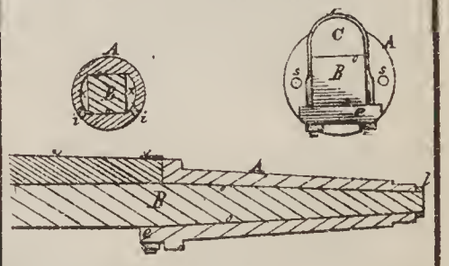
CAR-COUPLING.



97,621, SAMUEL FLETCHER.
SAWING-MACHINES.



97,622, SAMUEL FORRESTER.
AXLES FOR CARRIAGES.



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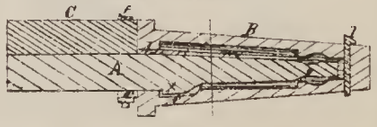
CARRIAGE-AXLES.



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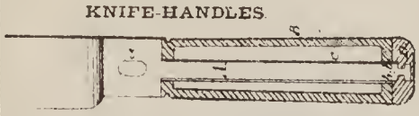
KNIFE-HANDLES.



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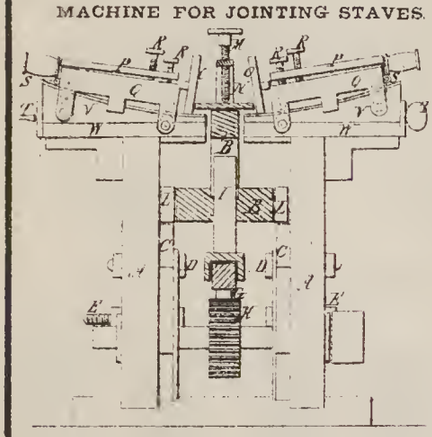
MARTIN FULDA.
MACHINE FOR JOINTING STAVES.



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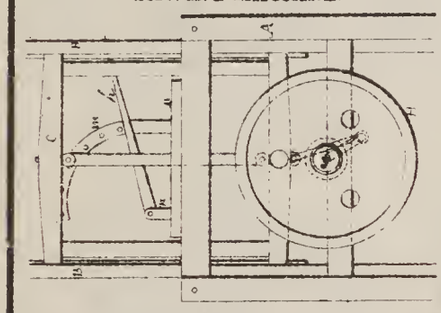
SAWING-MACHINE.



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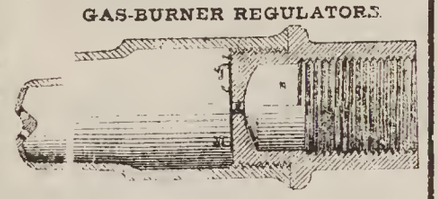
GAS-BURNER REGULATORS.



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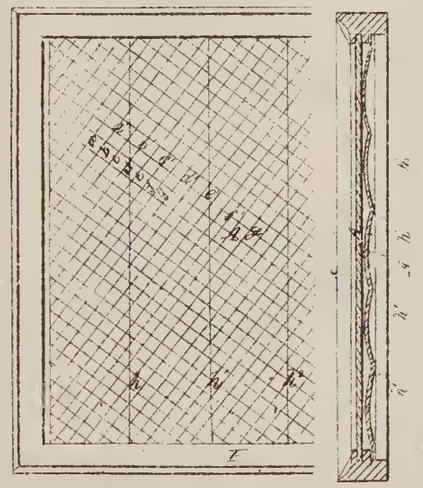
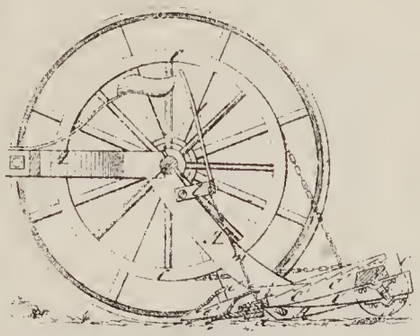
CORRUGATED REFLECTORS.



97,629, B. J. GREELY. ATTACHMENTS FOR FASTENING OVERLAPPING PARTS OF GAR- MENTS.

97,630, WILLIAM GREEN.
POTATO-DIGGERS.



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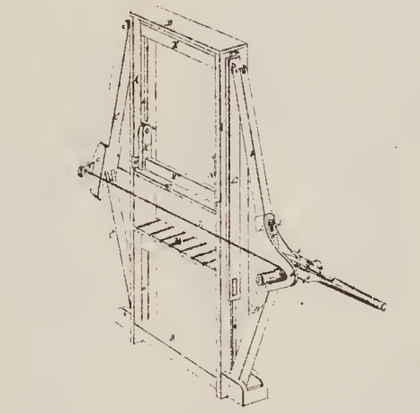
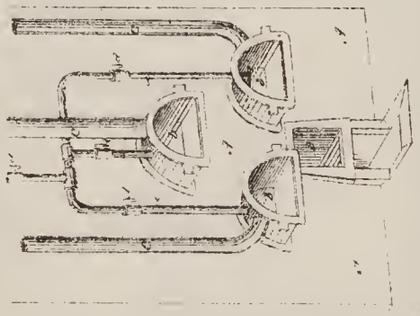
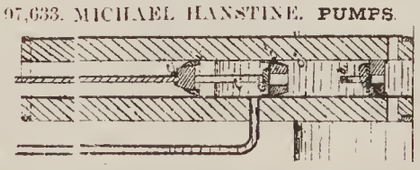
COTTON AND HAY-PRESSES.



97,632, A. HAMAR. MODE OF GENERATING ILLUMINATING-GAS



97,633. MICHAEL HANSTINE. PUMPS.



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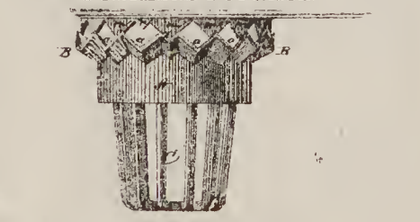
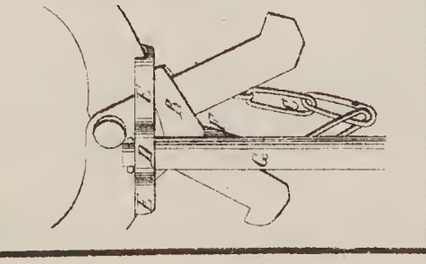
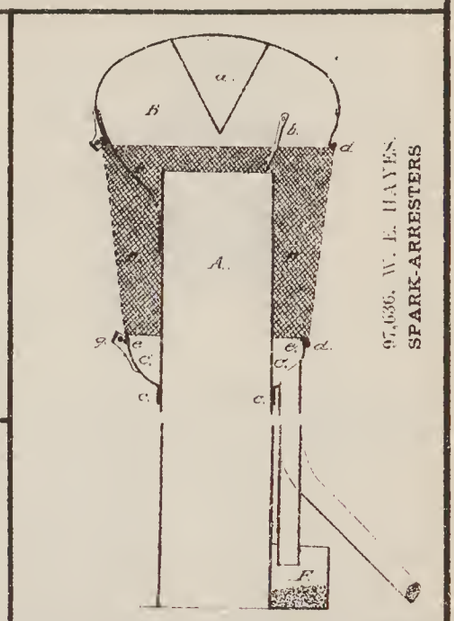
PORTABLE FURNACE.



97,635, H. H. HATHEWAY.
GRAPPLING-HOOKS.



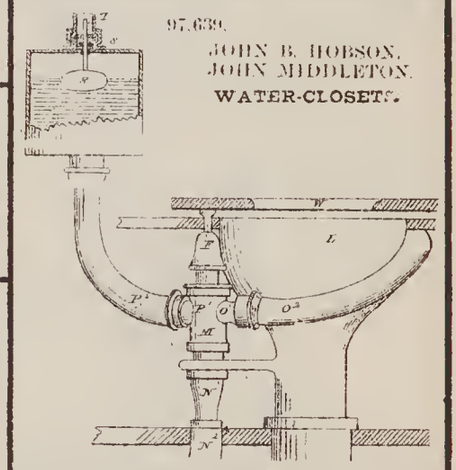


97,636, W. E. HAYES.
SPARK-ARRESTERS

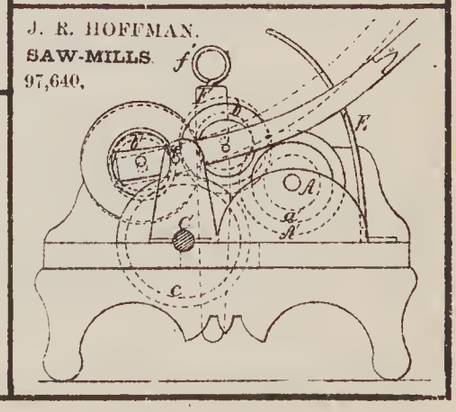
97,637, HARRY M. HEINEMAN.
FASTENINGS FOR NECKTIES.

97,638, C. H. HELMS.
MACHINE FOR TRIMMING THE HEELS OF BOOTS AND SHOES.

97,639.
JOHN B. HOBSON.
JOHN MIDDLETON.
WATER-CLOSETS.



J. R. HOFFMAN.
SAW-MILLS.
97,640.



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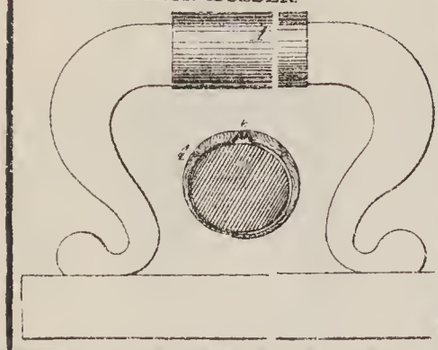
SAD-IRON HOLDER.



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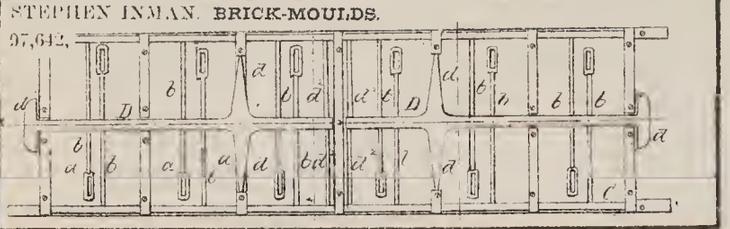

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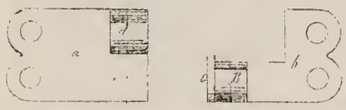
FASTENINGS FOR CORSETS.



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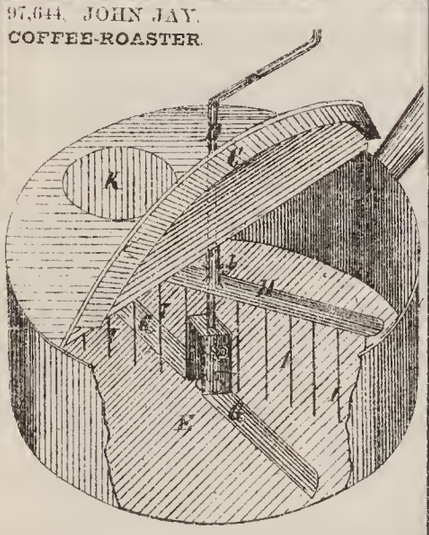
COFFEE-ROASTER.



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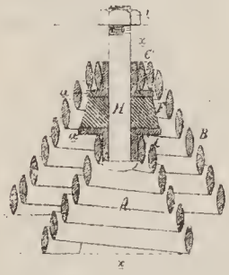
CAR-SPRING.



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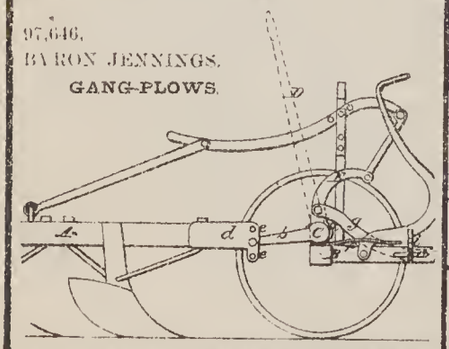
GANG-PLOWS.



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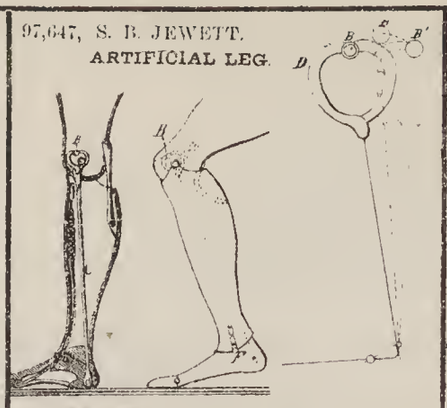
ARTIFICIAL LEG.



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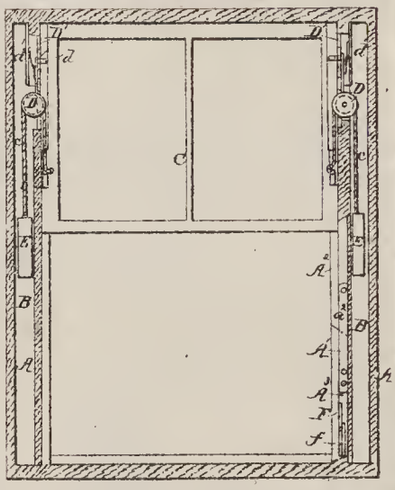
SASH-BALANCE.



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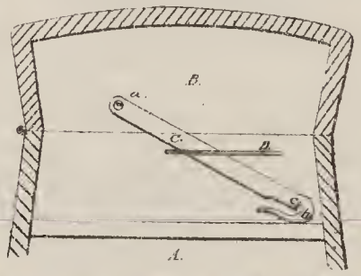
STAY FOR TRUNKS.



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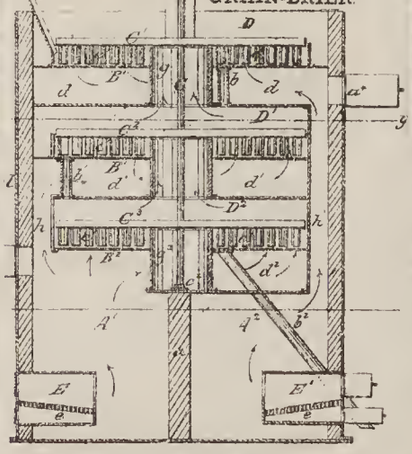
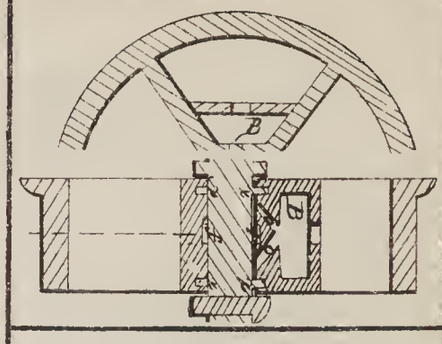
GRAIN-DRIER.



97,651, WM. KENWORTHY. JOHN H. POLLITT.
OILING CARRIAGE AND CAR-AXLES.



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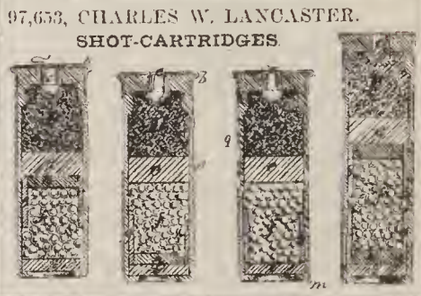
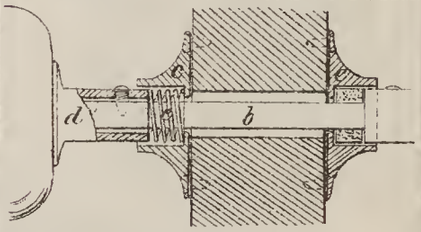
GAS-BURNERS.

97,653, CHARLES W. LANCASTER.
SHOT-CARTRIDGES.



97,654, CHARLES F. LANGFORD.
ATTACHING KNOBS TO DOORS.



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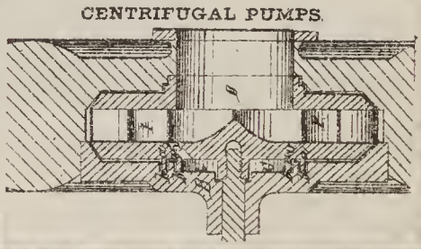
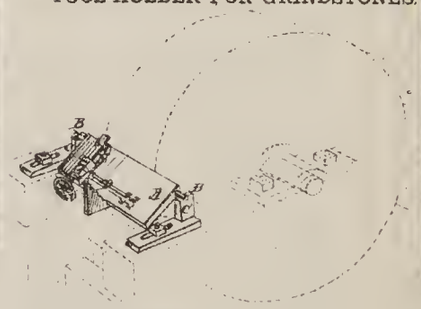
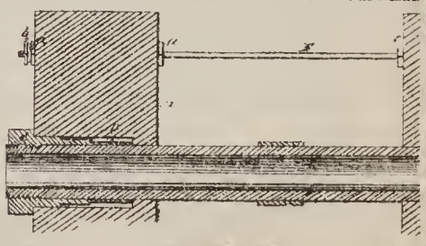
CENTRIFUGAL PUMPS.



97,656, PHILIP LEONARD.
TOOL-HOLDER FOR GRINDSTONES.



97,657, REUBEN LIGHTHALL.
MODE OF PREVENTING CORROSION IN PIPES, BOLTS, AND SIMILAR ARTICLES OF IRON IN SEA-WATER.



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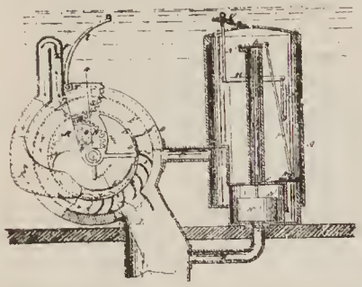

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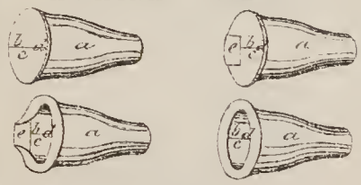
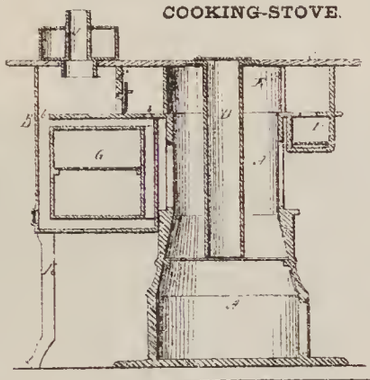
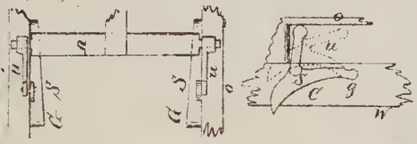
ARTIFICIAL NIPPLE.



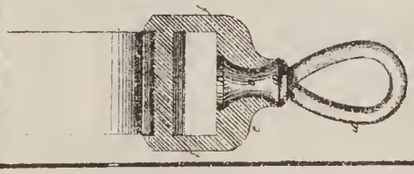
97,660, ZEPHANIAH LOCKWOOD.
COOKING-STOVE.



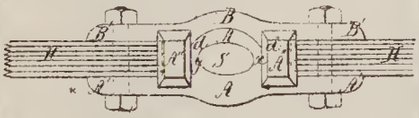
97,661, C. M. LUFKIN. **SLED-BRAKE.**



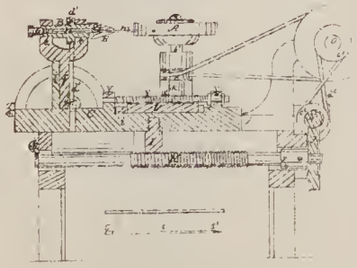
97,662, T. J. MAGRUDER.
COCK-EYE FOR HARNESS.



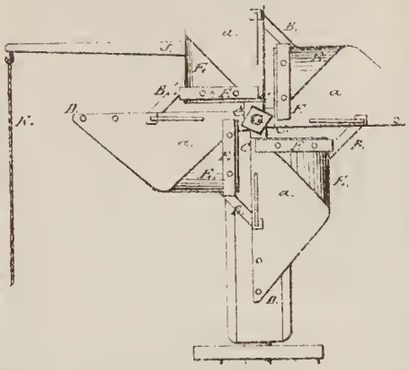
97,663, JAMES W. MALOY.
BUSH-HAMMERS.



97,664, CLARK MARSH.
MACHINE FOR GRINDING NEEDLES.

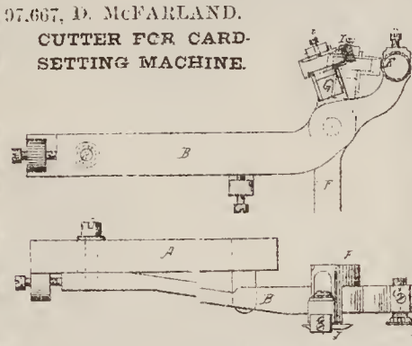


97,665, HENRY P. McCLEAVE.
WIND-WEEELS.



97,666, JAMES McCULLOUGH.
WAGON-STANDARDS.

97,667, D. McFARLAND.
CUTTER FOR CARD-SETTING MACHINE.



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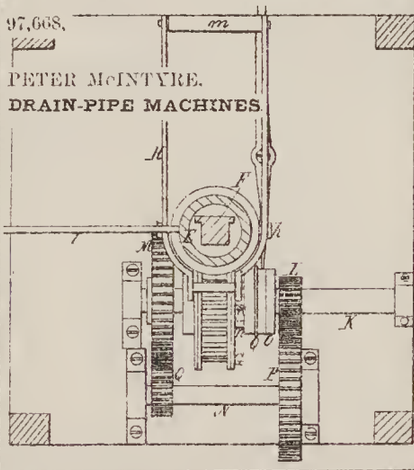
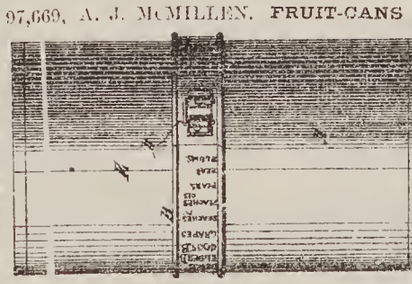
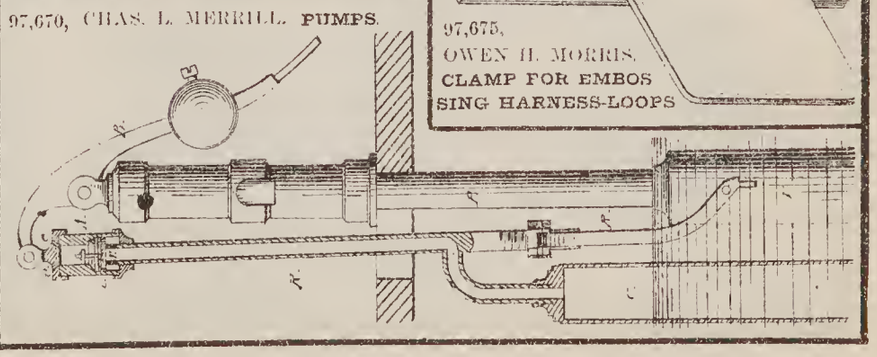
PETER McINTYRE.
DRAIN-PIPE MACHINES.



97,669, A. J. McMILLEN. **FRUIT-CANS**

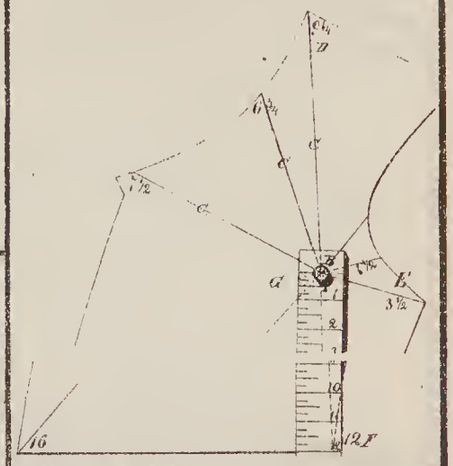


97,670, CHAS. L. MERRILL. **PUMPS.**

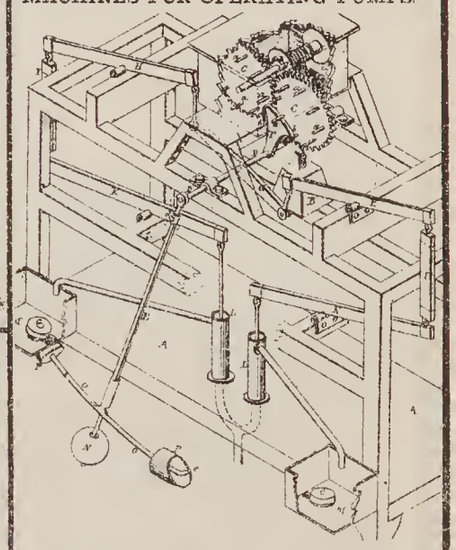


97,671, E. C. MERRILL.
ABRADING AND POLISHING-WHEEL.

97,672, WM. M. MICHAEL. **PATTERNS FOR LAYING OUT GARMENTS.**



97,673, ROBERT E. MOORE.
MACHINES FOR OPERATING PUMPS.



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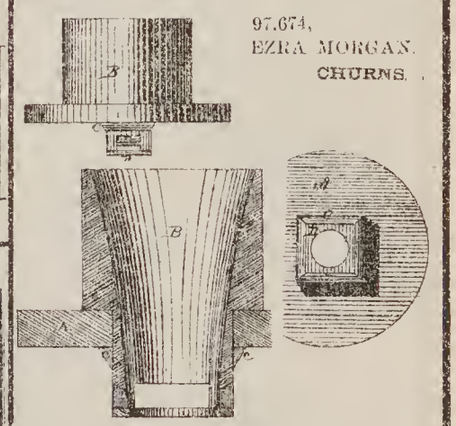
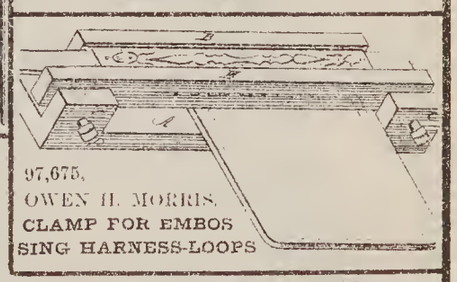
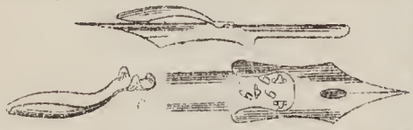
EZRA MORGAN.
CHURNS.



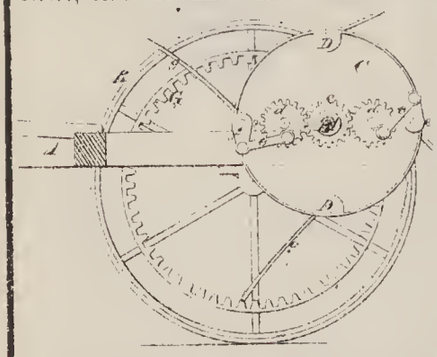
97,675,
OWEN H. MORRIS.
CLAMP FOR EMBOSSING HARNESS-LOOPS



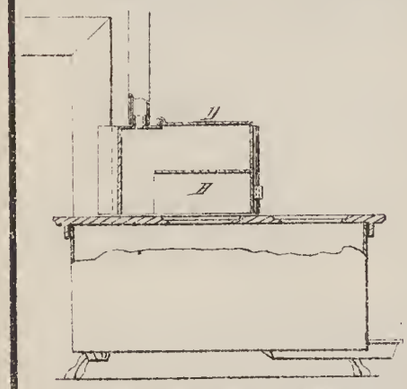
97,676, WILLIAM A. MORSE. PENS.



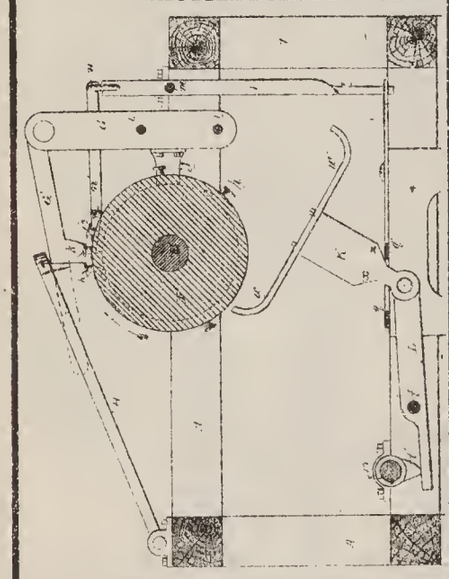
97,677, M. D. MYERS. HAY-TEDDER.



97,678, R. W. MYERS. HEATING-ATTACHMENT FOR COOKING-STOVES.



97,679, ARCHIBALD NIMMO. MECHANISM FOR OPERATING THE SHUTTLE-BOXES IN LOOMS.



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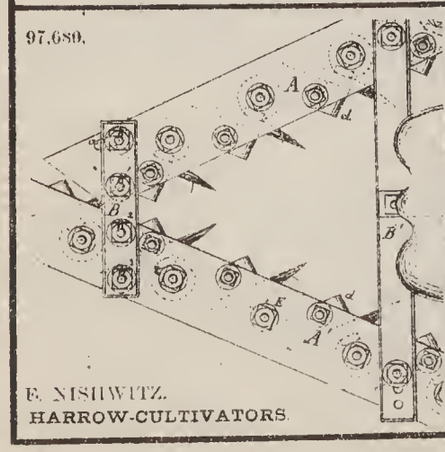
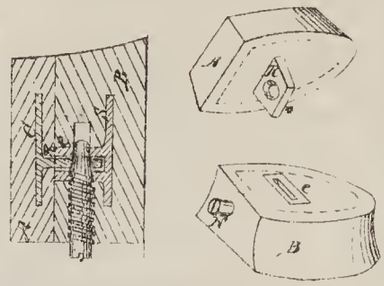
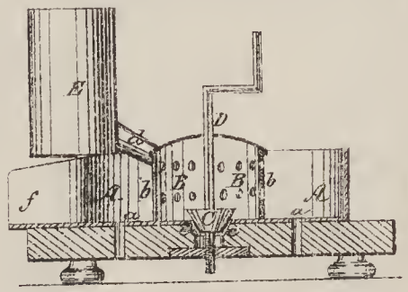


E. NISHWITZ. HARROW-CULTIVATORS.

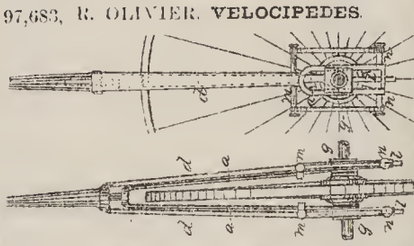
97,681, JOHN NORBURN. INTERCHANGEABLE BOOT AND SHOE-HEEL



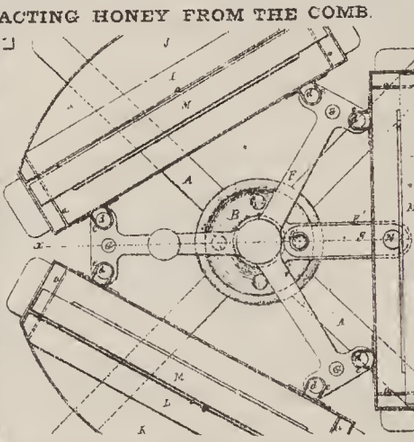
97,682, EMILE NOUGARET. MACHINES FOR WASHING WOOL.



97,683, R. OLIVIER. VELOCIPEDES.

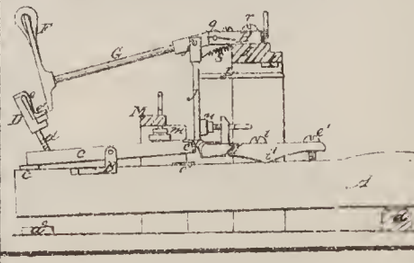


97,684, HENRY O. PEABODY. CENTRIFUGAL MACHINES FOR EXTRACTING HONEY FROM THE COMB.

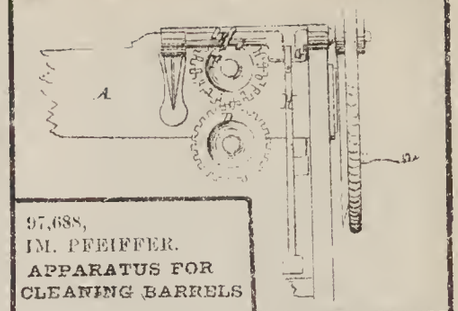


97,685, WM. PEARSON. SPRING.

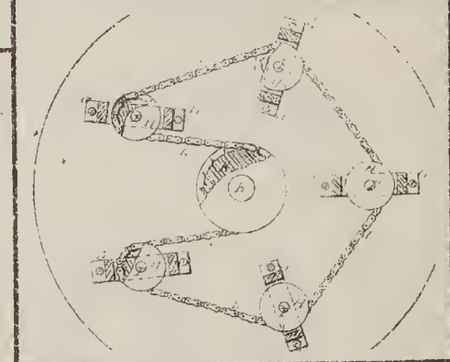
97,686, A. W. PERRY. PIANO-FORTE ACTION.



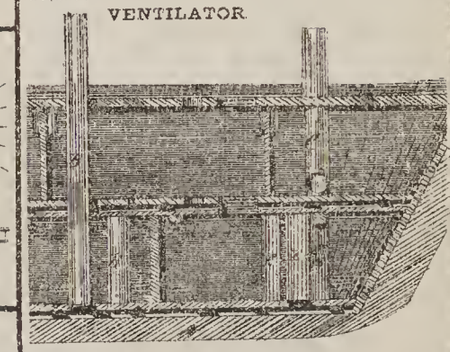
97,687, HANS PETERSON FEED-CUTTER.



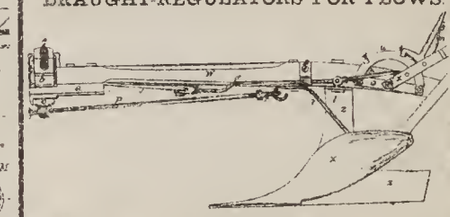
97,688, IM. PFEIFFER. APPARATUS FOR CLEANING BARRELS



97,689, WM. L. PHILLIPS. VENTILATOR.



97,690, MARTIN PRILLAMAN. DRAUGHT-REGULATORS FOR PLOWS.



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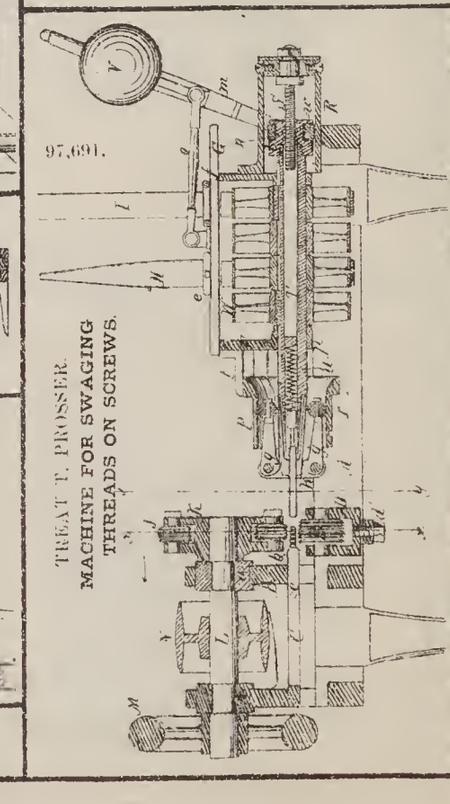
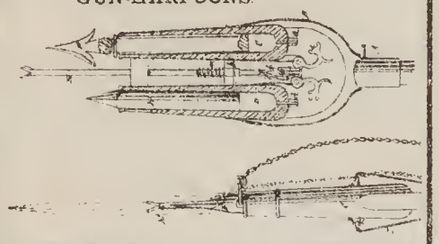


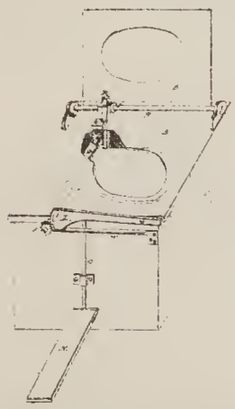
TREAT T. PROSSER. MACHINE FOR SWAGING THREADS ON SCREWS.

97,692, WILLIAM PATTERSON PUGH.
THE MANUFACTURE OF SOAP.

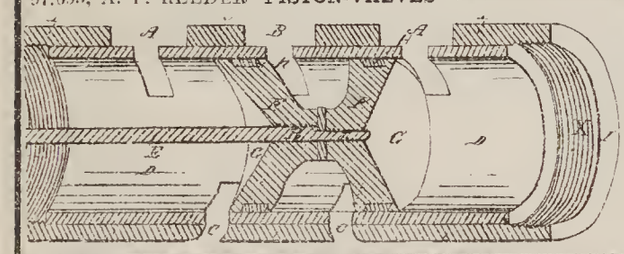
97,693, JOHN P. RECHTEN.
GUN-HARPOONS.



97,694, FRANK REED. PRIVY-SEATS.



97,695, A. F. REEDER. PISTON-VALVES.



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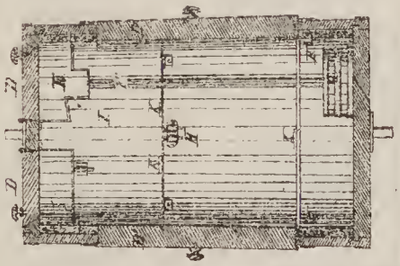
TUBULAR REFRIGERATOR.



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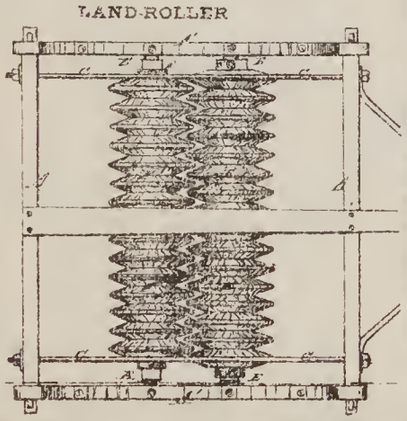
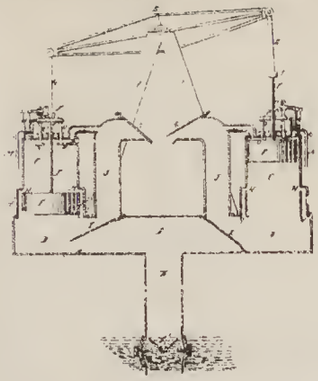
LAND-ROLLER.



97,698, ANDREW J. REYNOLDS.
ATMOSPHERIC AND CONDENSING HYDRAULIC ENGINES.



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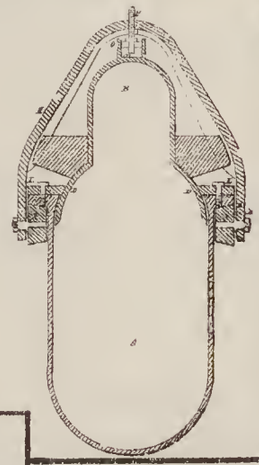
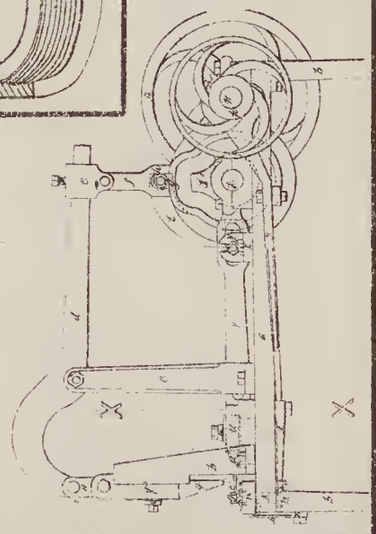
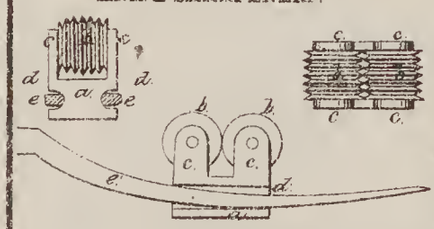
FLEXIBLE PIPE-COUPLING.



97,700, JULIUS ROBBINS.
MACHINE FOR MAKING BUCKLES.



97,701, Z. C. ROBBINS, H. A. ROBBINS.
KNIFE-SHARPENERS.



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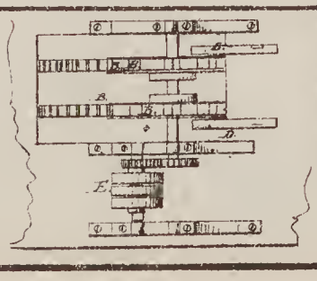
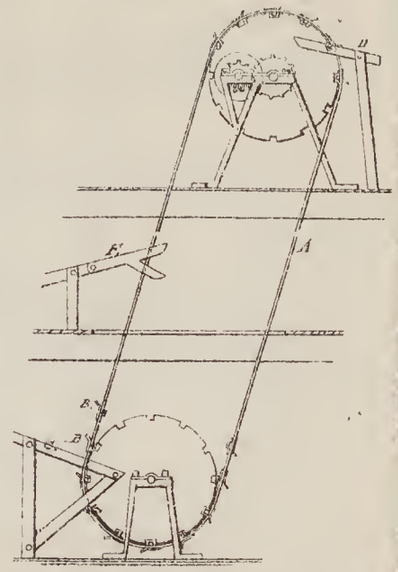
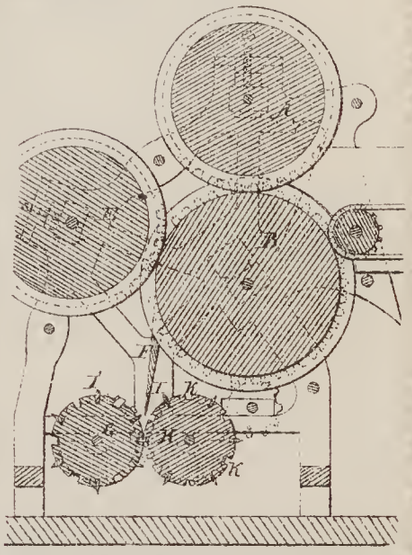
TOBACCO-ELEVATOR.

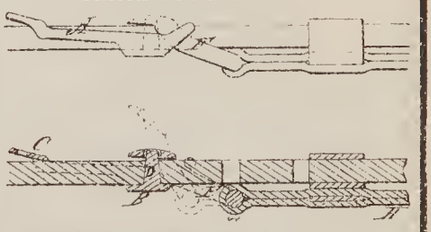




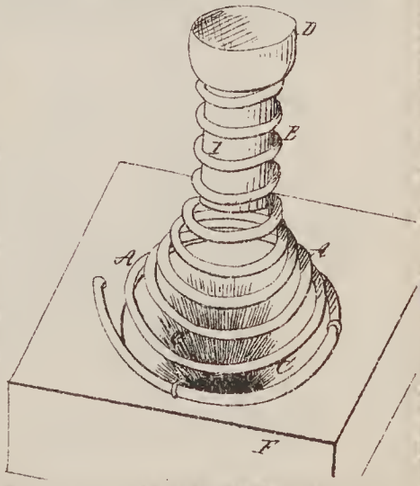
97,703, G. ROBINSON.
MACHINES FOR ROLLING, PRESSING, AND CUTTING TOBACCO.



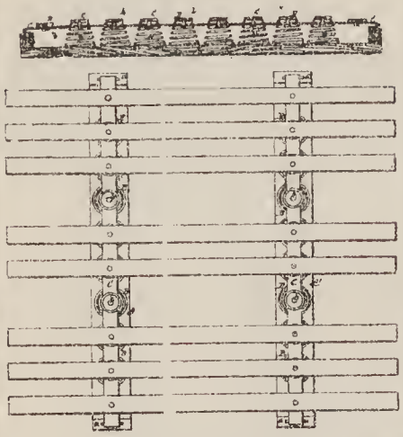
97,704, WM. A. ROBINSON.
TRACE-BUCKLE.



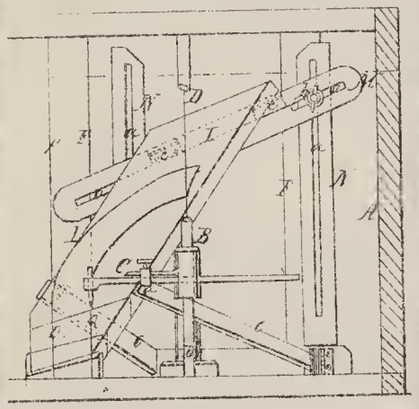
97,705, TIMOTHY ROSE.
PLATT S. BUELL.
COIL-SPRING AND ITS ATTACHMENTS.



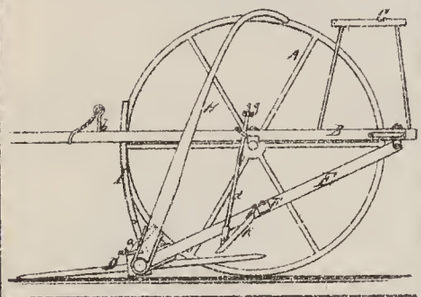
97,706, IRA MOSHER RUSSELL.
SPRING-BED BOTTOM



97,707, ANDREW SCHOLLARS.
APPARATUS FOR LAYING OUT STAIR-RAILS.

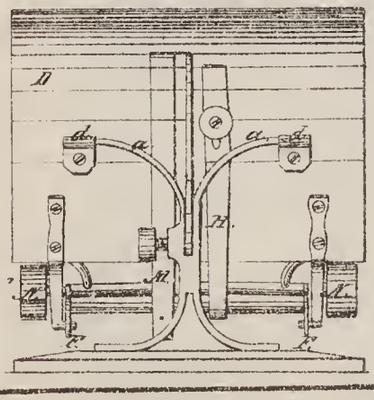


97,708, WILLIAM SHARKEY.
HORSE HAY-RAKES.



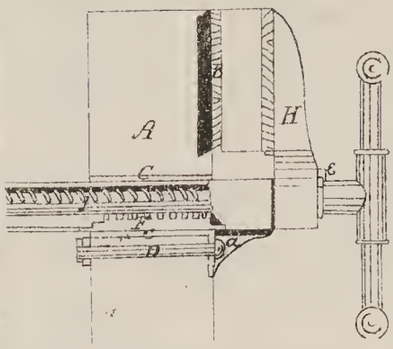
97,709, MARY A. SHEAFFER.
PROCESS FOR MANUFACTURING CHEESE.

97,710, HAMILTON SHERMAN.
BOOK-HOLDERS.



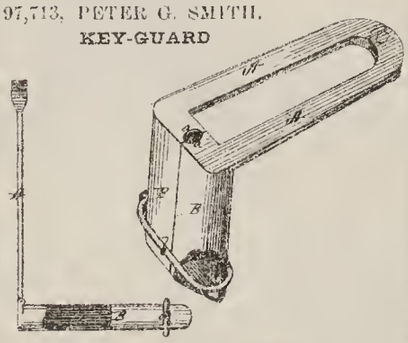
97,711, JAMES W. SHUBERT.
NORVAL DOUGLAS.
PLATES FOR HOLDING THE LIDS OF TRUNKS IN PLACE.

97,712, JOHN SIMPSON.



VISES FOR WOOD-WORKING.

97,713, PETER G. SMITH.
KEY-GUARD



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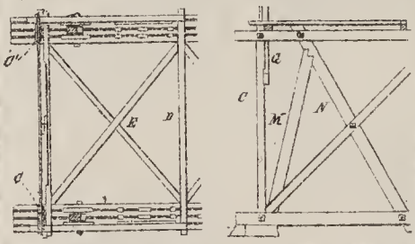

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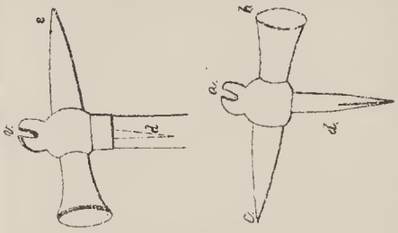

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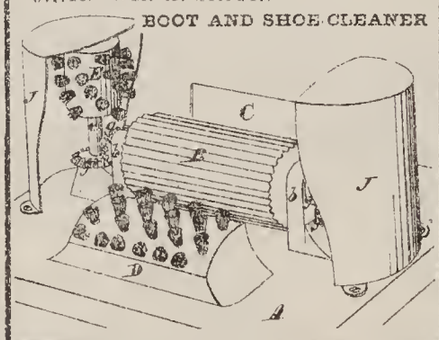
BOOT AND SHOE CLEANER



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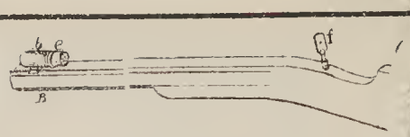
SIGHTS FOR FIRE-ARMS.



97,718, HOWARD SPENCER.
LAFFAYETTE K. SAYLOR.
MANUFACTURE OF IRON AND STEEL.

97,719, EBENEZER SPERRY.
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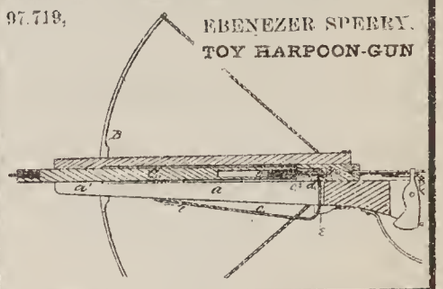
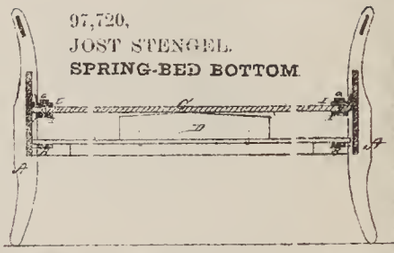


97,720, JOST STENGEL.
SPRING-BED BOTTOM.



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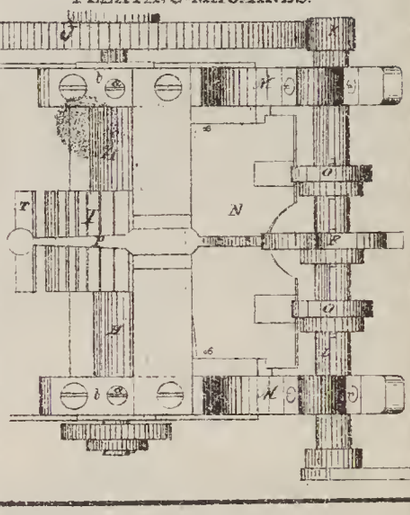

97,722, WILLIAM STEVENS.
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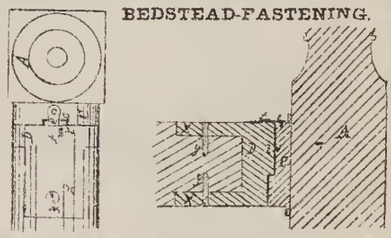

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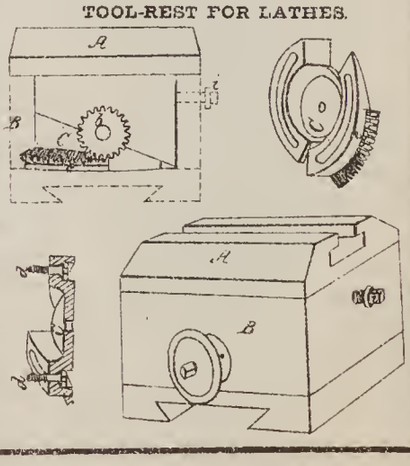
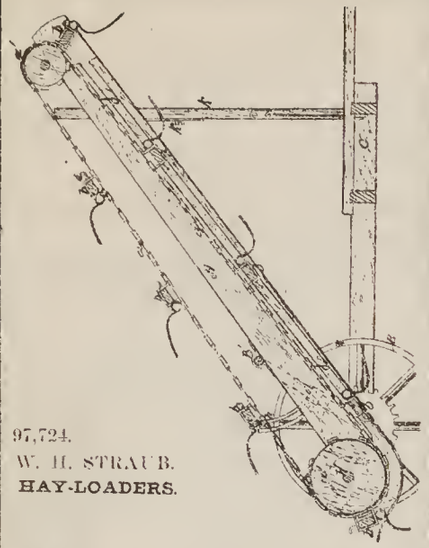
TOOL-REST FOR LATHES.





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W. H. STRAUB.
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97,725, THOMAS H. TATLOW.
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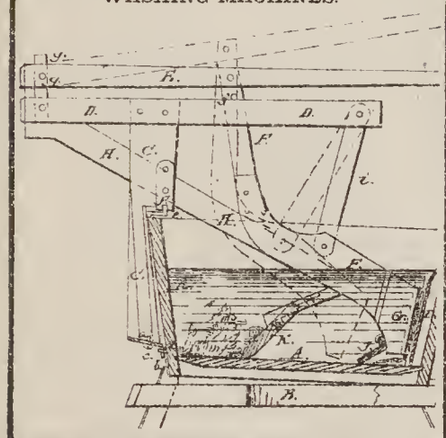

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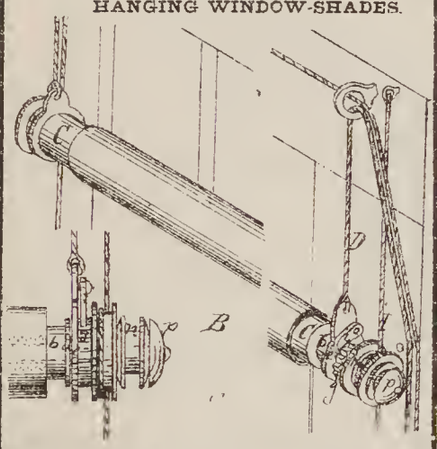
HANGING WINDOW-SHADES.



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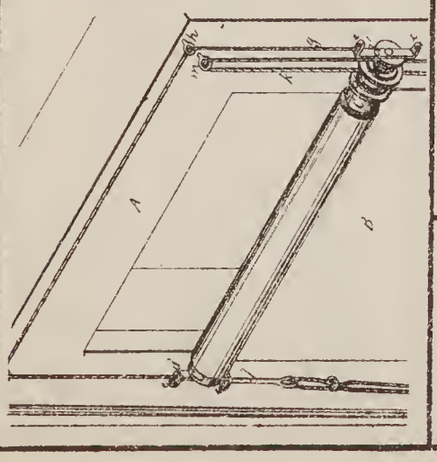
LODOWICK L. SAWYER.
MEANS FOR HANGING WINDOW-SHADES.



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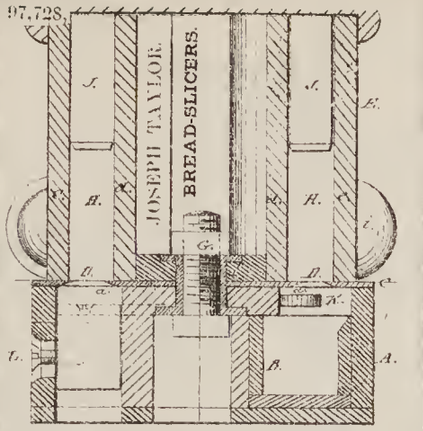

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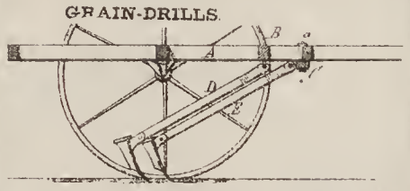

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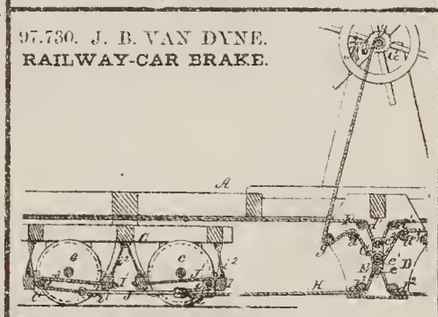

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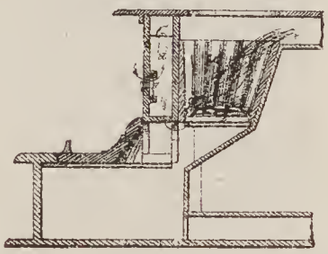
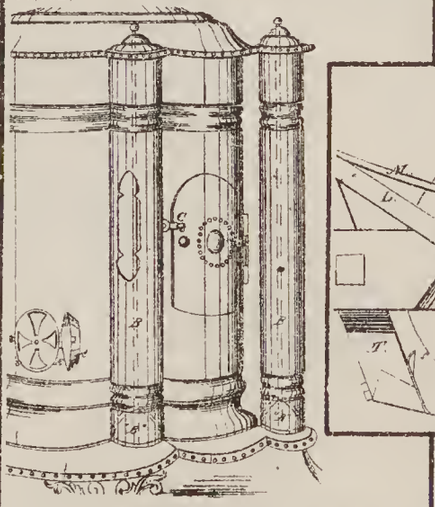


97,732, SAMUEL D. VOSE **COAL-STOVE**



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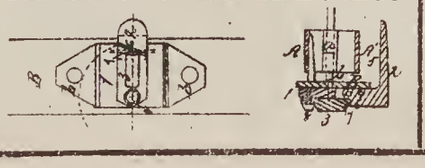

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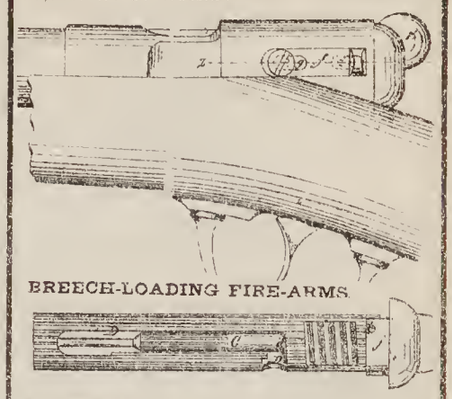
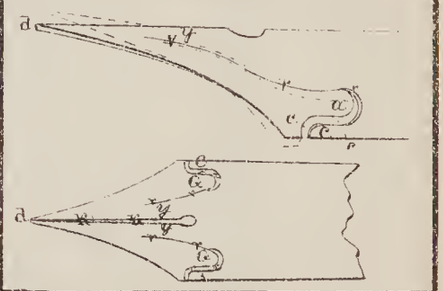


BREECH-LOADING FIRE-ARMS.

97,735, A. G. WATERHOUSE **PENS**



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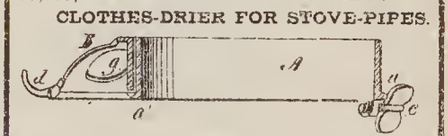
CLOTHES-DRIER FOR STOVE-PIPES.



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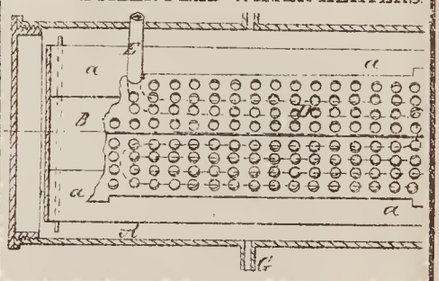

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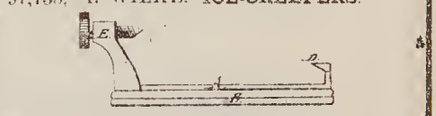

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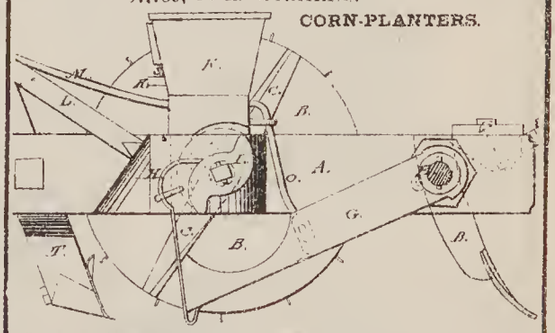

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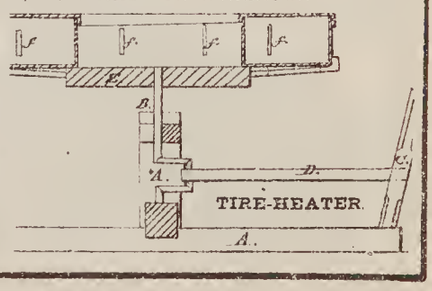

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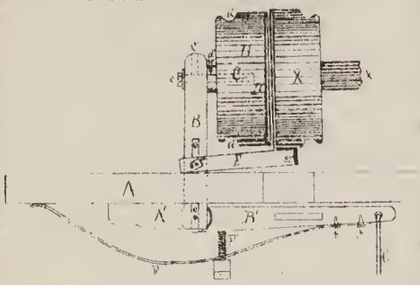
JACOB D. C. OUTWATER.



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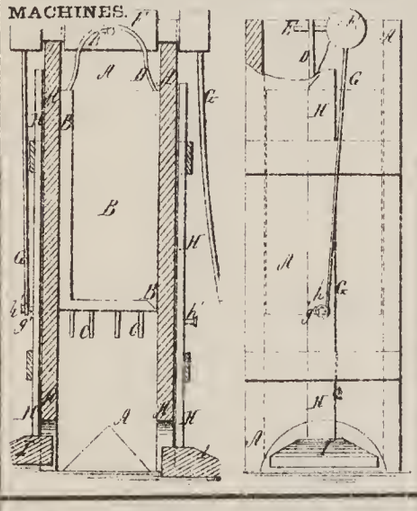
MECHANISM FOR DRIVING SEWING MACHINES.



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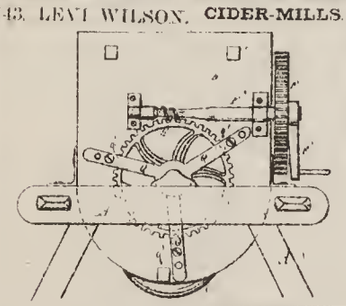
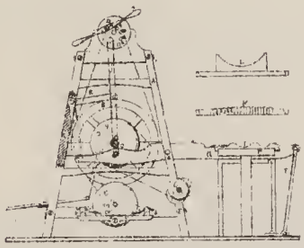


97,744, ALLEN L. WOOD.
APPARATUS FOR TREATING DISEASES BY MECHANICAL MOVEMENT.



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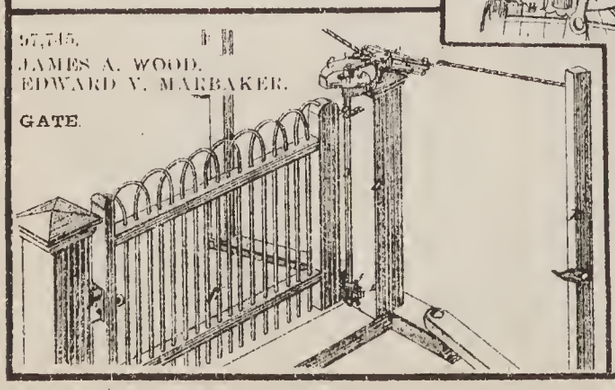
EDWARD V. MARBAKER.
GATE.



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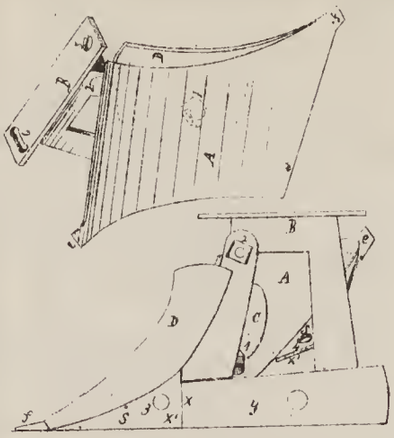

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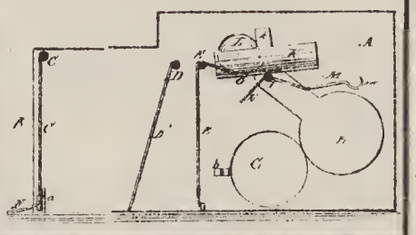

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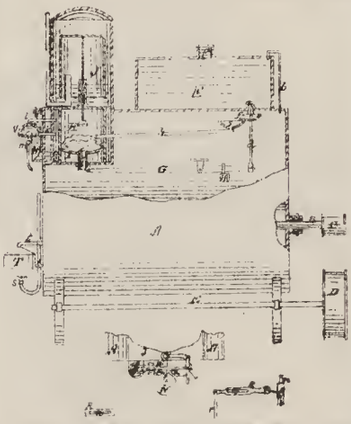
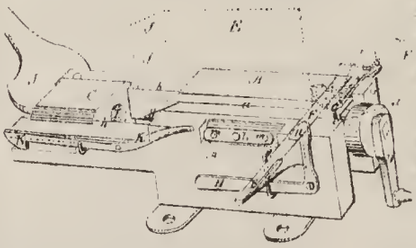


97,749, MOSES BURLINGAME.
MACHINES FOR MAKING CANDLE-MOULDS



97,750, GOTTFRIED BIERING.
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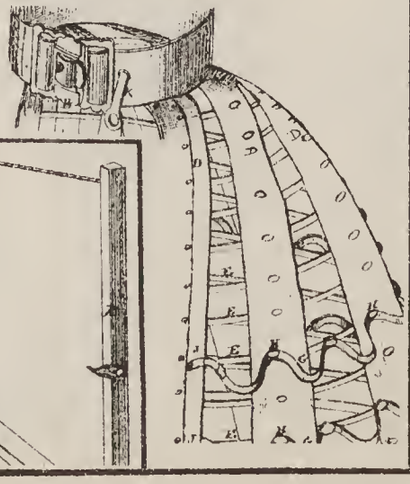
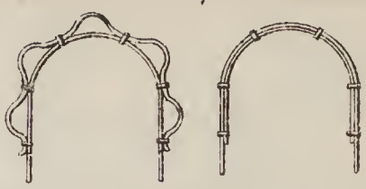
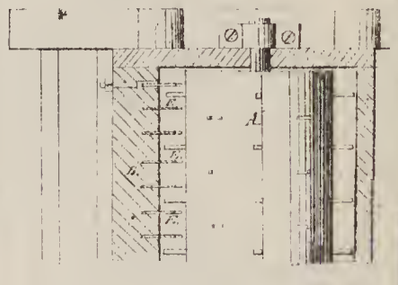
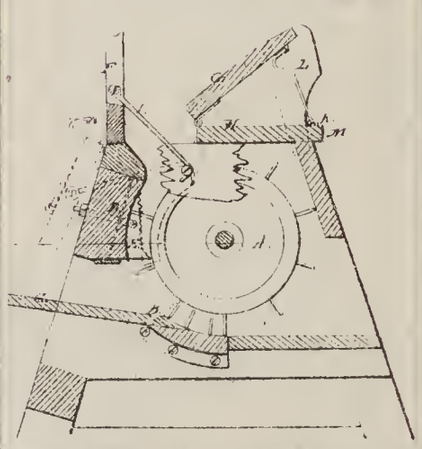




3,756, GEORGE W. LEE.
FEED-CUTTING ATTACHMENT TO THRESHING-MACHINES.





3,757, JAMES WILSON.
CHARLES GREEN.
WM. WILSON, Jr.
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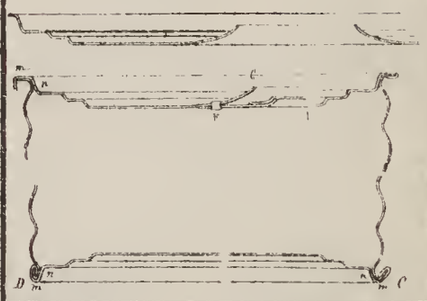
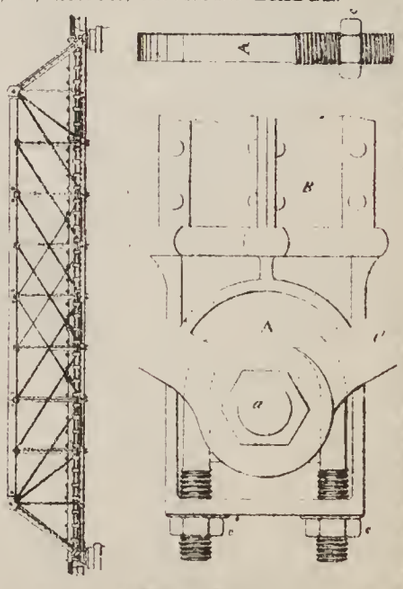


3,758, SMITH, LATROBE BRIDGE.



ILLUSTRATIONS OF PATENTS

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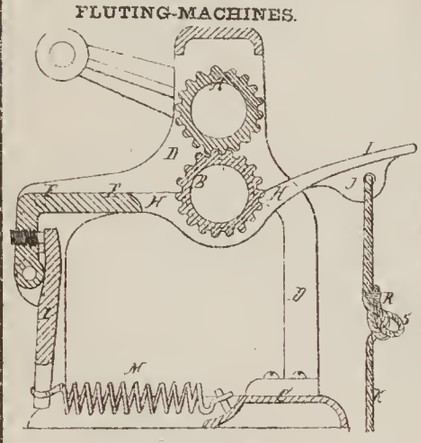
97,751, HENRY B. ADAMS.
FLUTING-MACHINES.



97,752, GEO. W. BILLINGS.
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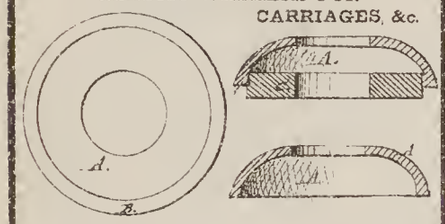

97,753, A. BITNER, Jr.
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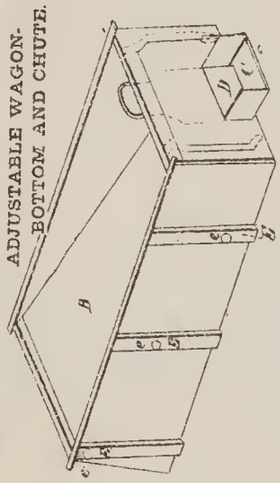
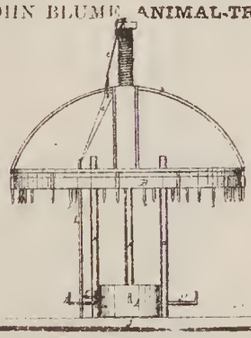
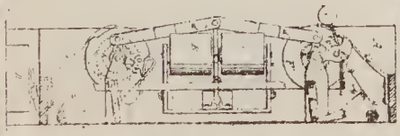


97,754, THO. S. BLAIR.
MODE OF TREATING CONGLOMERATES OF CAST-IRON.

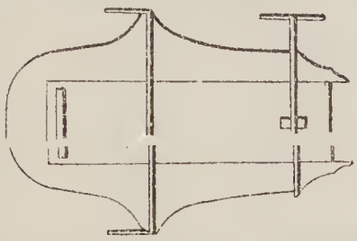
97,755, JOHN BLUME. ANIMAL-TRAP.



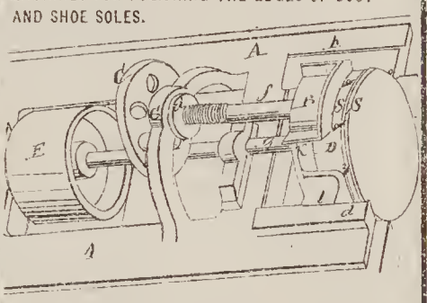
97,756, JOSHUA BROOKS. ELECTRO-MAGNETIC ADVERTISING-FRAME.



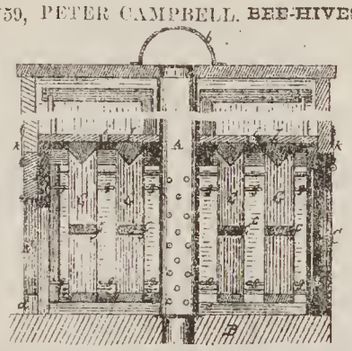
97,757, WILLIAM I. BUNKER.
LAMP-EXTINGUISHERS.



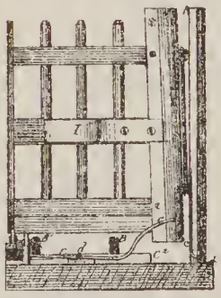
97,758 ROBERT F. BURNS.
MACHINES FOR POLISHING THE EDGES OF BOOT AND SHOE SOLES.



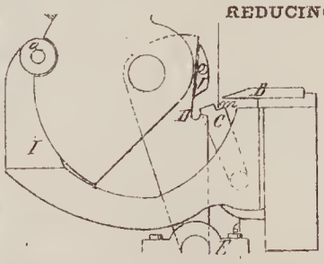
97,759, PETER CAMPBELL. BEE-HIVES.



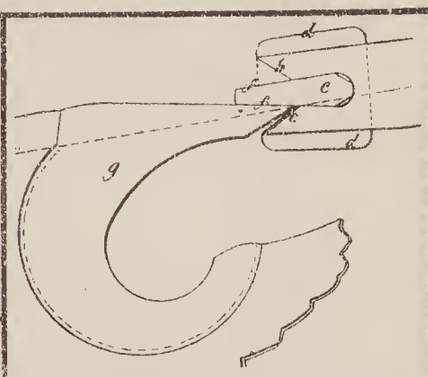
97,760. PETER CAMPBELL.
RAILWAY-GATE.



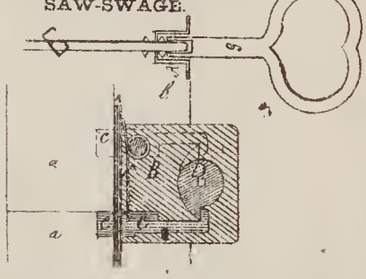
97,761. THOS. J. CHUBB.
REDUCING ORES



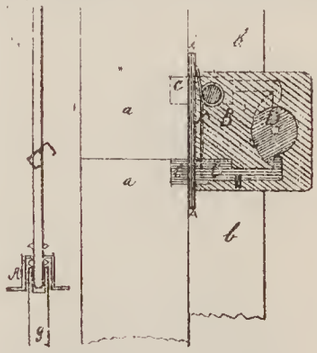
97,762, JAMES B. CLARK.
LUCAS C. CLARK.
MACHINES FOR BENDING AND FOLDING SHEET-METAL.



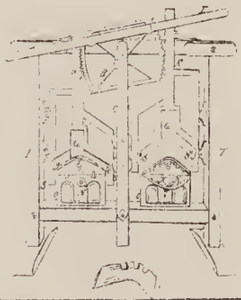
97,763, JOSEPH S. CLARK.
SAW-SWAGE.



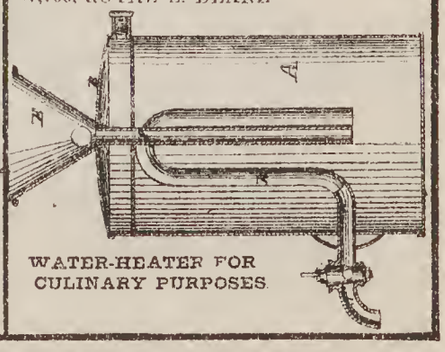
97,764, NELSON C. COLE. SASH-HOLDER.



97,765. CHRISTOPHER DAY.
MACHINE FOR CRIMPING AND FORMING THE FRONTS OF BOOTS.

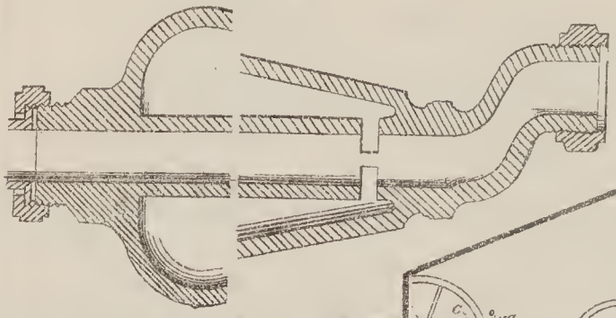


97,766, ROYAL E. DEANE

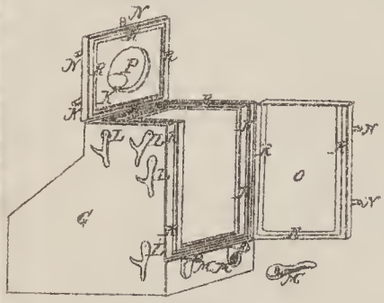


WATER-HEATER FOR CULINARY PURPOSES.

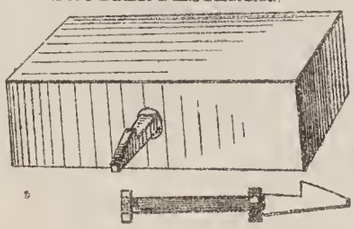
97,767, JOS. W. DOUGLAS. PUMPS.



97,768, S. C. FRINK. DEPURATOR.
L. O. HARLAN.



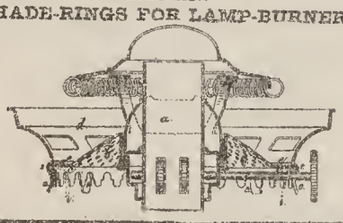
97,769, CHARLES B. GOODRICH, JR.
SHUTTER-FASTENER.



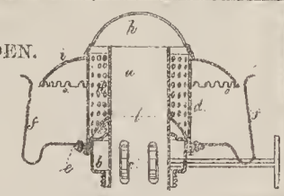
97,770 SUSPENDED.

97,771, GEO. GUENTHER.
MANUFACTURE OF GLUE.

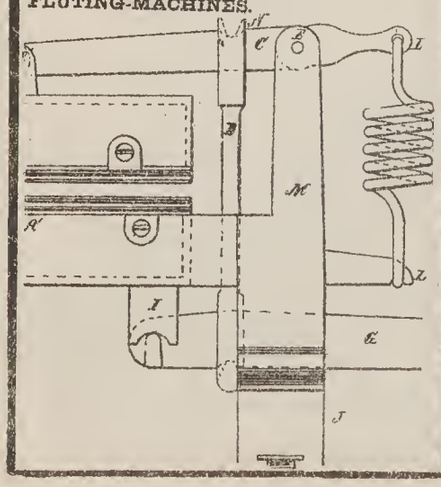
97,772, H. W. HAYDEN.
SHADE-RINGS FOR LAMP-BURNERS.



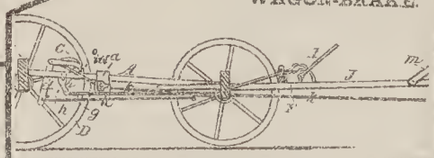
97,773.
H. W. HAYDEN.
LAMP.



97,774. FREDERIC HEWITT.
FLUTING-MACHINES.



97,775,
ABRAM C. JAQUES.
WAGON-BRAKE.



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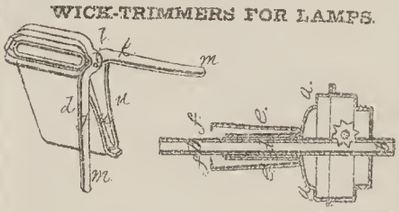
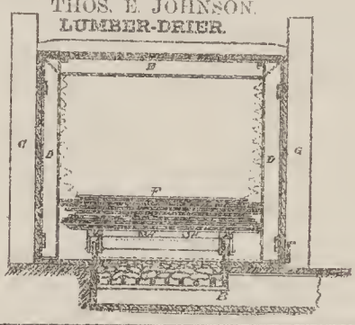
WICK-TRIMMERS FOR LAMPS.

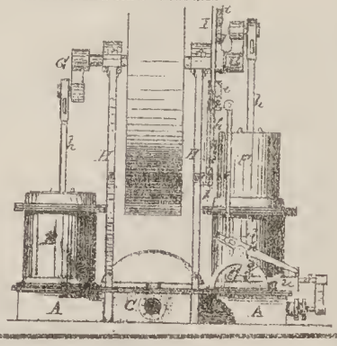


97,777, JESSE B. JOHNSON.
THOS. E. JOHNSON.
LUMBER-DRIER.

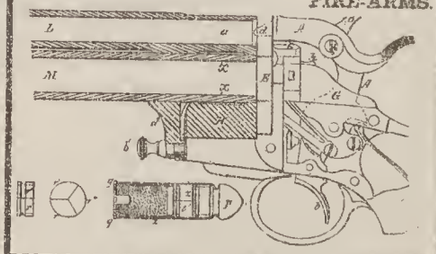


97,778, JULIUS H. JONES.
TURBINE WATER-WHEELS.

HENRY J. KING.
97,779. BENTON L. BEEBE.
HYDRAULIC ENGIN

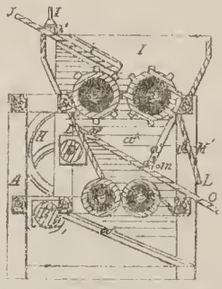


97,780, F. A. LE MAT.
BREECH-LOADING REVOLVING FIRE-ARMS.

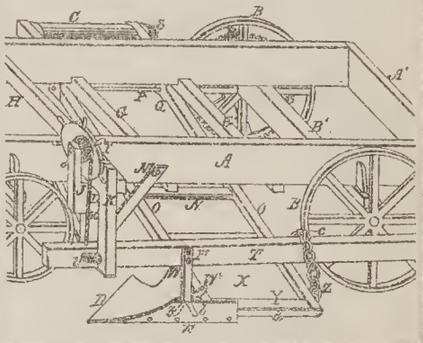


97,781, FERDINAND LEROY,
COMPOSITION FOR COVERING STEAM-BOILERS, AND FOR OTHER PURPOSES.

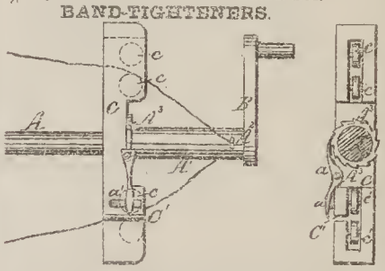
97,782. EDWARD C. LEWIS.
WINE AND CIDER-MILL.



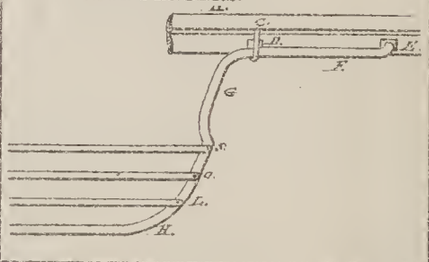
97,783, J. R. LEWIS. EXCAVATOR.



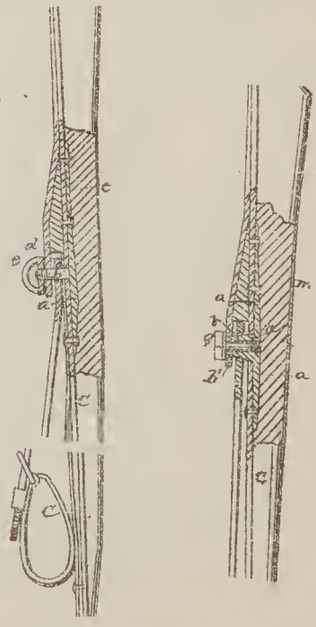
97,784, FRANCIS M. LOTTRIDGE.
BAND-TIGHTENERS.



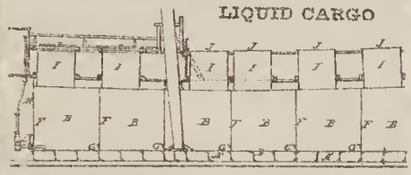
97,785, FRANCIS M. LOWDEN.
JOHN D. LOWDEN.
CLOD-FENDERS.



97,786, T. J. MAGRUDER.
SHAFT-TUG LUG FOR HARNESS.

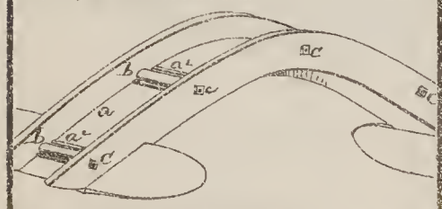


97,787, J. W. MARSHALL.
GILMAN JOSLIN.
NELSON CURTIS.
OLIVER EDWARDS.
SHIPS OR VESSELS FOR CARRYING LIQUID CARGO

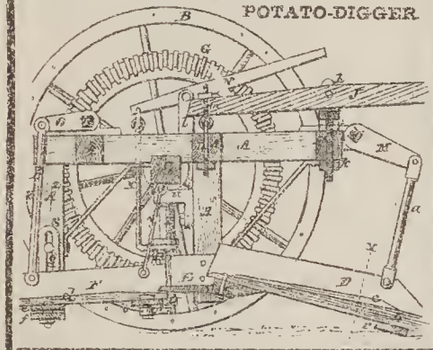


97,788, FRANK W. MARSTON.
FASTENINGS FOR CORSETS.

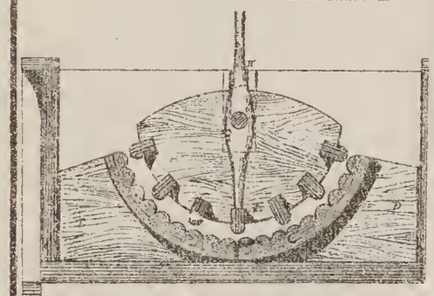
97,789, W. B. McCLURE. CART-SADDLE.



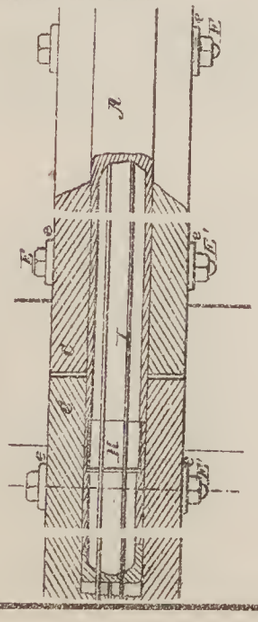
97,790, PHILIP C. McMANUS.
POTATO-DIGGER.



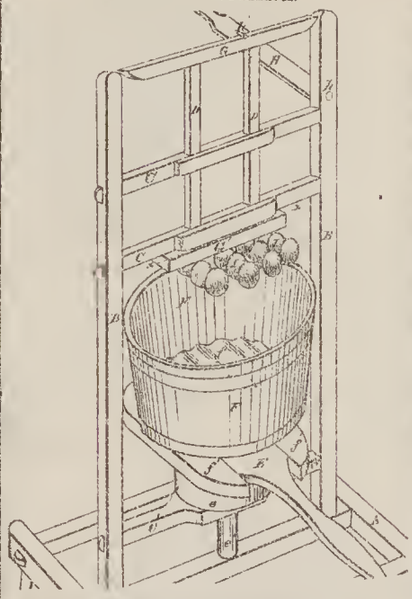
97,791, J. S. MERCHANT.
WASHING-MACHINE



97,792. JAMES MONTGOMERY
RAILWAY-RAIL.

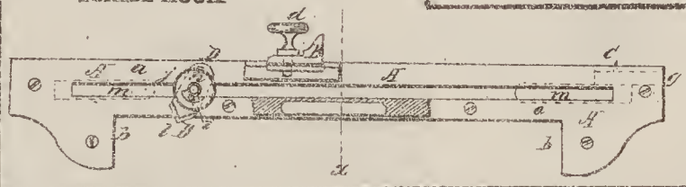


97,793, WM. MORGAN.
WASHING-MACHINE.

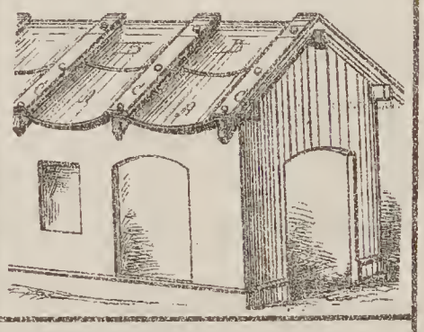


97,794, H. H. MUNROE. COMPOUND FOR TREATING RHEUMATISM.

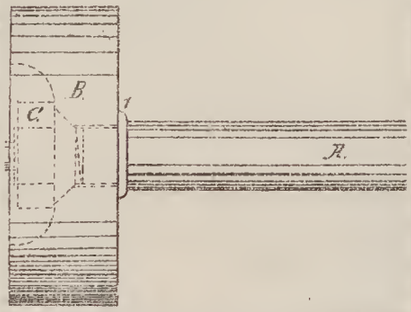
97,795, JOHN NESTER.
SCRIBE-HOOK.



97,796, H. G. NOBLE. ROOFING.

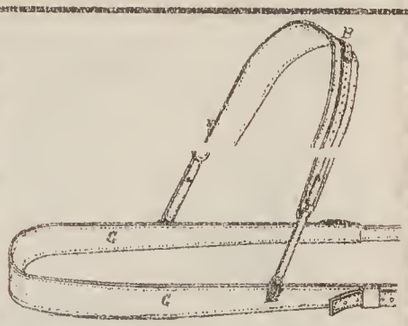


97,797, A. T. NORGAN.
DEVICES FOR FASTENING PISTONS TO PISTON-RODS

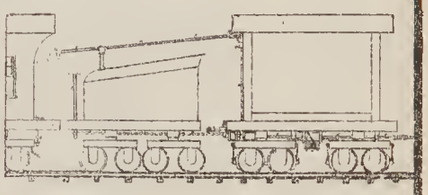


97,798 G. S. NOPEIS.
ATTACHABLE AND REMOVABLE CALKS FOR HORSESHOES.

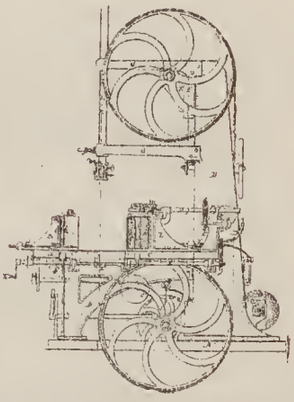
97,799, JOHN PALEN.
HARNESS FOR HORSES.



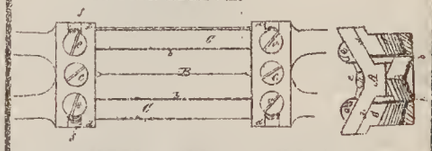
97,800 THOMAS PAYNE.
RAILWAY-CAR BRAKE



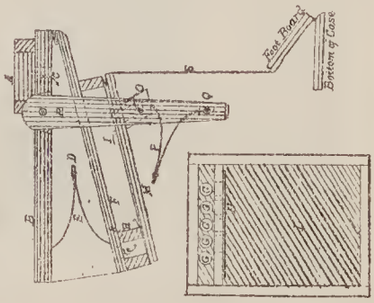
97,801, PERIN. SAW-MILLS.



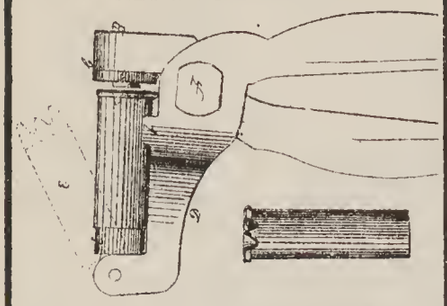
97,802. JOSEPH A. PERLEY.
SPOKE-SHAVE.



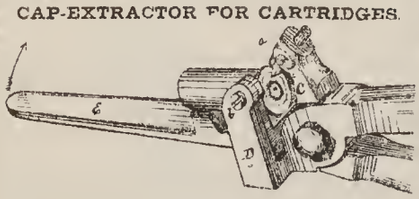
97,803, J. R. PERRY. ORGAN-BELLOWS.



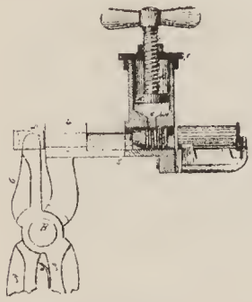
97,804, WILLIAM C. PICKERSGILL.
APPARATUS FOR SETTING CAPS IN METALLIC CARTRIDGES.



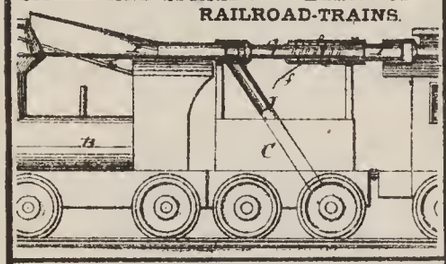
97,805, WILLIAM C. PICKERSGILL.
CAP-EXTRACTOR FOR CARTRIDGES.



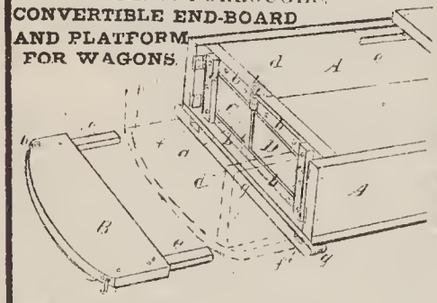
97,806, WILLIAM C. PICKERSGILL.
APPARATUS FOR SETTING BULLETS IN CARTRIDGES.



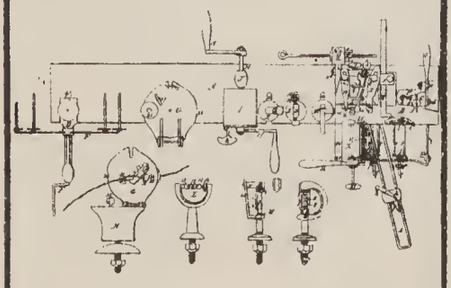
97,807, LEMUEL POWELL.
SMOKE AND SPARK-CONVEYER FOR RAILROAD-TRAINS.



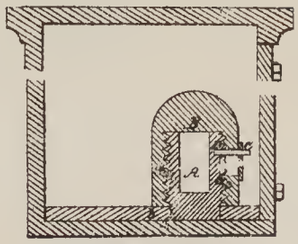
97,808, THOMAS T. POWELL, JOHN F. BURROUGHS.
CONVERTIBLE END-BOARD AND PLATFORM FOR WAGONS.



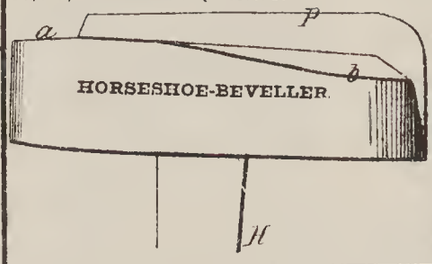
97,809, A. PRUTZMANN.
MACHINES FOR MAKING FLY-NETS



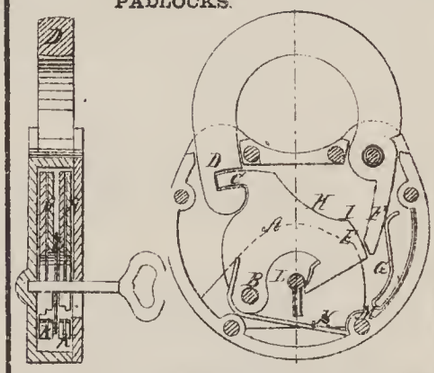
97,810, GEORGE W. PUTNAM.
BURGLAR-PROOF SAFES.



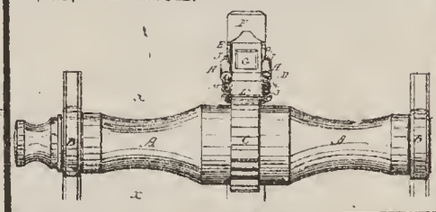
97,811, EPHRAIM QUINBY.
HORSESHOE-BEVELLER.



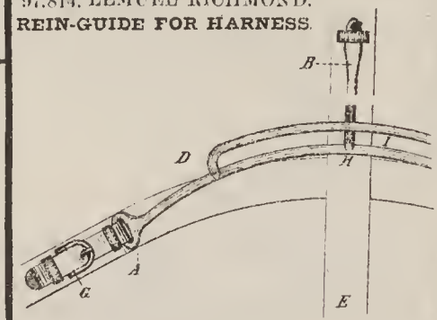
97,812, JNO. S. RANKIN.
PADLOCKS.



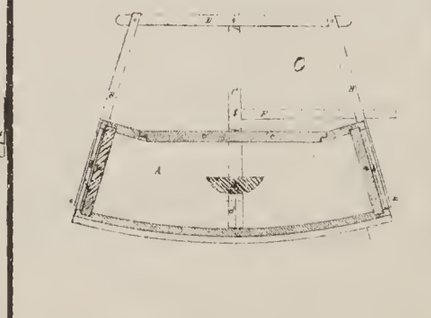
97,813, E. B. RICH. **SHIP-WINDLASSES.**



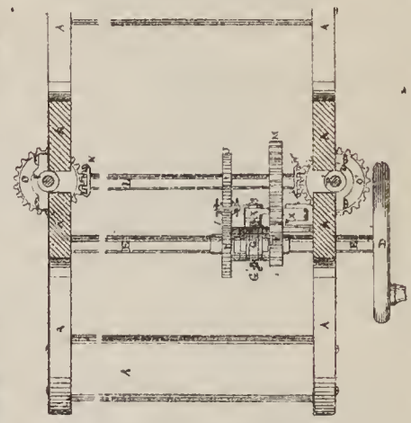
97,814, LEMUEL RICHMOND.
REIN-GUIDE FOR HARNESS.



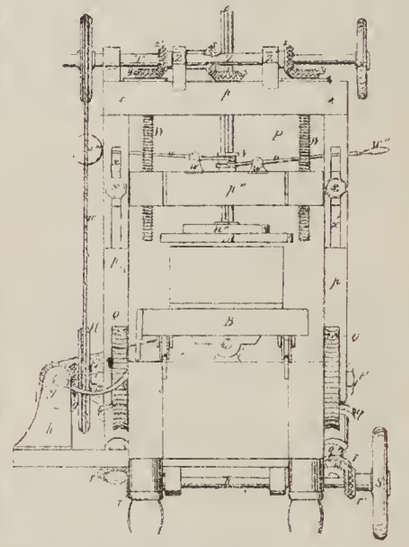
97,815, STACY RISLER.
CHURNS.



97,816, HENRY SCHOFIELD.
PAPER-CUTTING MACHINES.

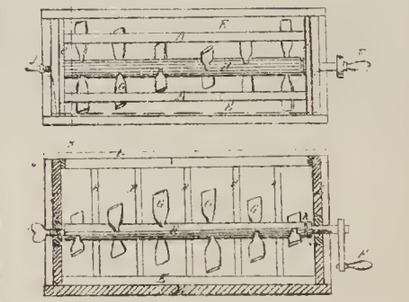


97,817, HENRY SCHOFIELD.
STONE-POLISHING MACHINE.

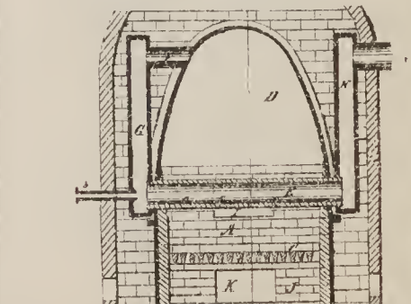


97,818, SOCRATES SCHOLFIELD.
TWIST-DRILLS.

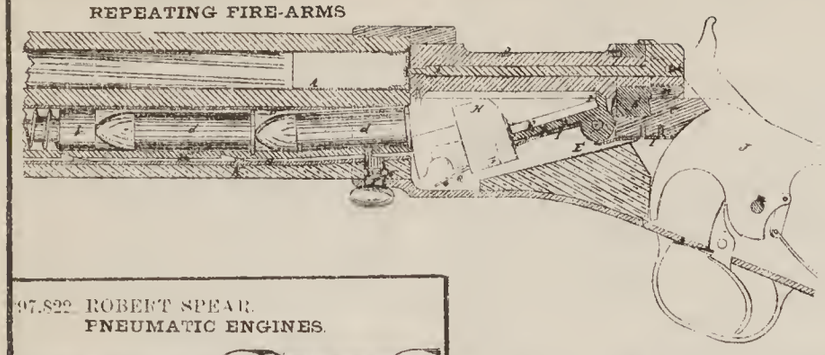
SAMUEL SMITH. **CHURNS.**
97,819

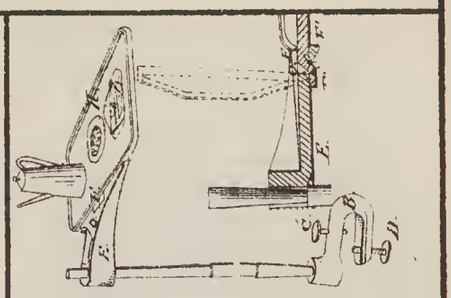


97,820, GEORGE H. SMITH
SMOKE-CONSUMING FIRE-BOXES.

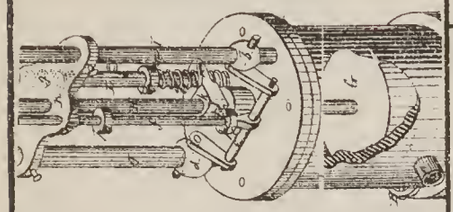


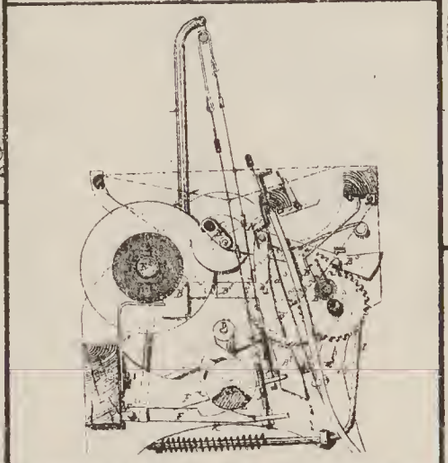
97,821. W. S. SMOOT.
REPEATING FIRE-ARMS



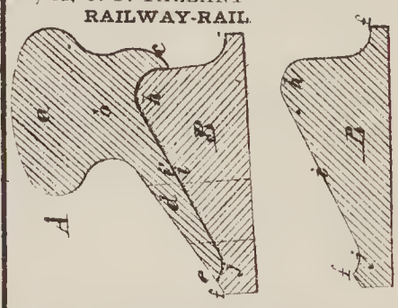


97,822. ROBERT SPEAR.
PNEUMATIC ENGINES.

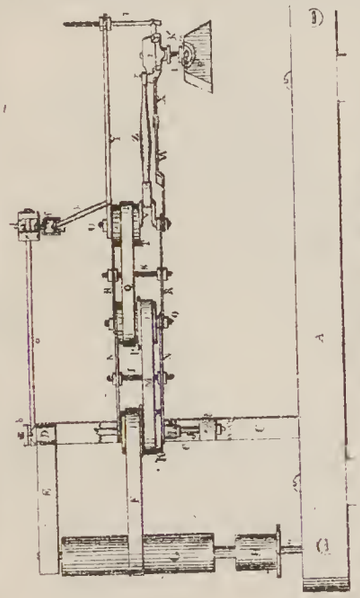




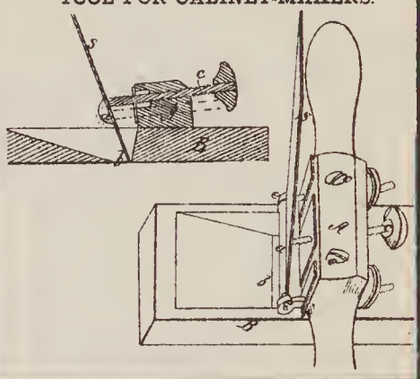
97,832, J. F. TALLANT
RAILWAY-RAIL.



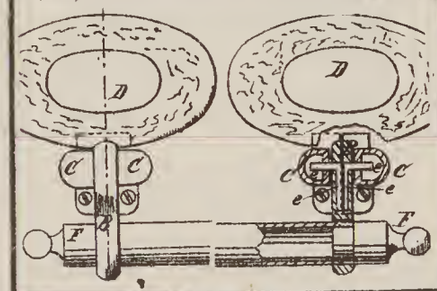
97,823. WM. F. SPEAR.
MACHINE FOR POLISHING WOOD



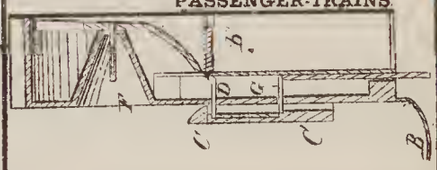
97,833, RICHARD W. TANNER.
TOOL FOR CABINET-MAKERS.



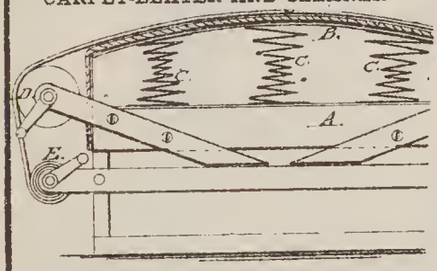
97,827, CLARK STRONG. COFFIN-HANDLE



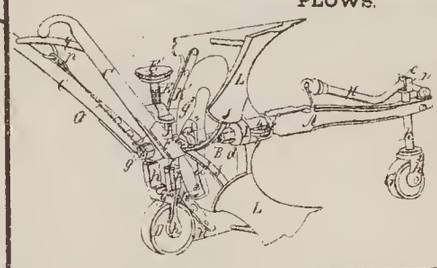
97,834, ASAHEL TODD. Jr.
TICKET-BOXES FOR RAILROAD PASSENGER-TRAINS.



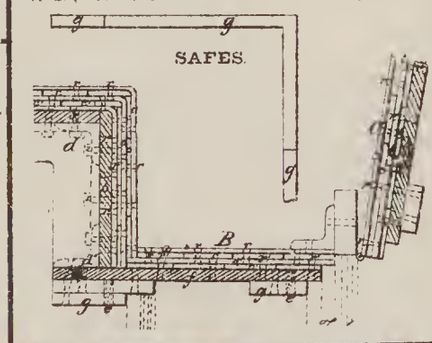
97,824, ABEN. STEVENSON.
CARPET-BEATER AND CLEANER.



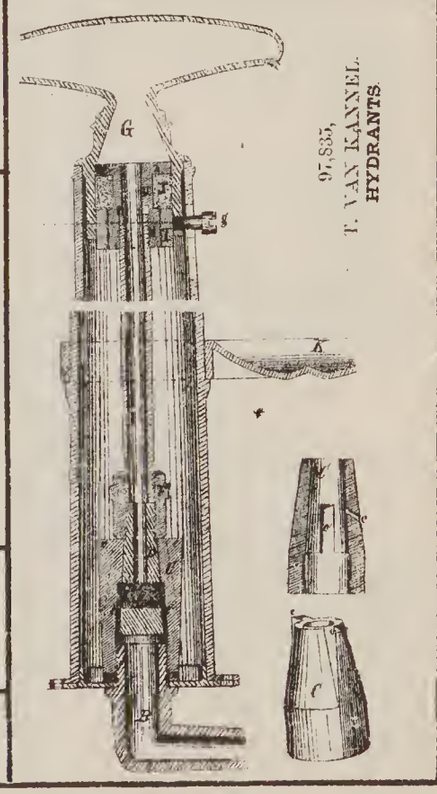
97,828, ZOPHAR W. STURTEVANT.
PLOWS.



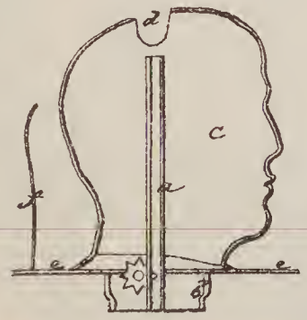
97,829, T. J. SULLIVAN.
SAFES.



97,835,
T. VAN KANNEL.
HYDRANTS.



97,825, CORNELIUS ST. JOHN.
CHARLES E. MARSTON.
FORMING "BURNER-CONES" OF LAMPS.

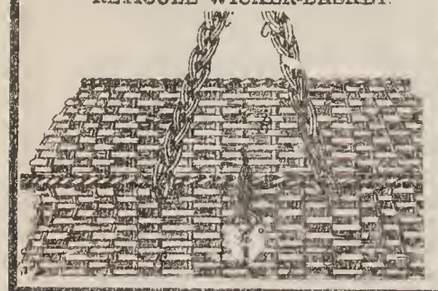


97,830, JAMES SWAN.
AUGER-HANDLES.

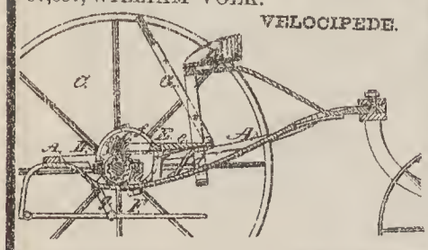
97,826 LYMAN STONE.
LOOMS.

97,831, G. L. SWETT.
STOVE-SHELF.

97,836, JOSEPH VENET.
RETICULE WICKER-BASKET.

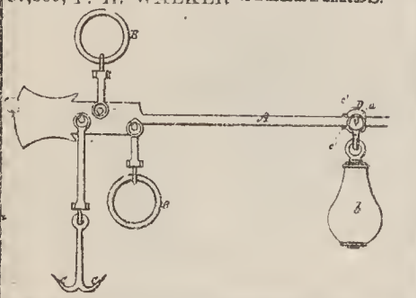


97,837, WILLIAM VOLK.
VELOCIPEDE.

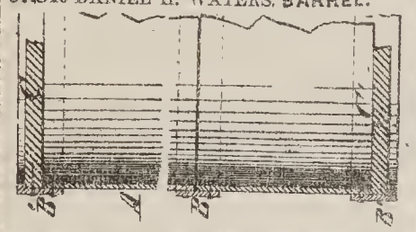


97,838, HENRY BALEN WALKER.
SILVERING GLASS AND IN PROTECTING THE SAME.

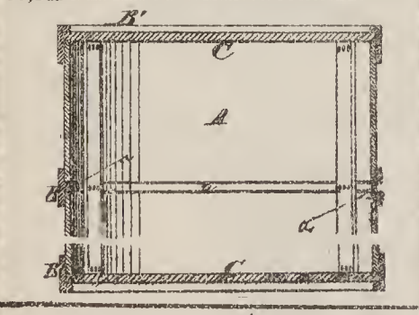
97,839, P. H. WALKER STEELYARDS.



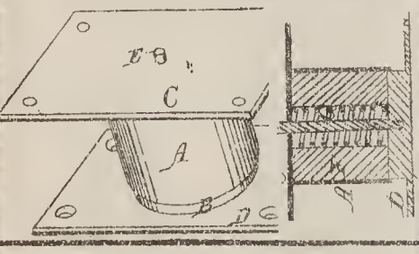
97,840 DANIEL H. WATERS. BARREL.



97,841 DANIEL H. WATERS. BARREL.

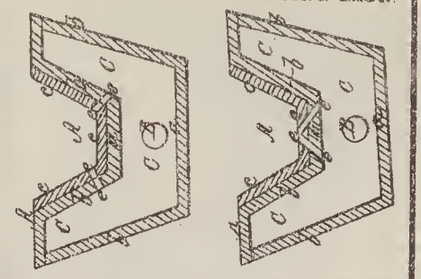


97,842. C. WHEELER, JR. CAR-SPRING.



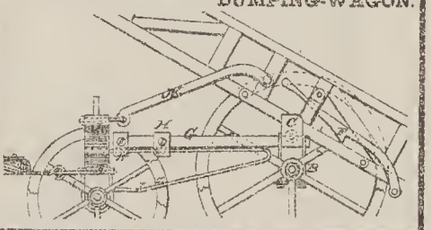
97,843. ROLLIN WHITE.
METALLIC CARTRIDGES.

97,844, SAMUEL M. WICKERSHAM.
APPARATUS FOR PURIFYING IRON.

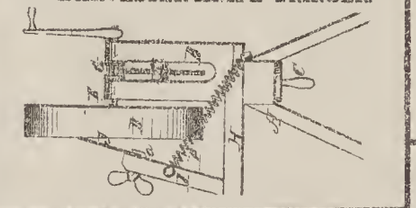


97,845, HENRY WILLGOHS.
MAKING PIANO-LEGS.

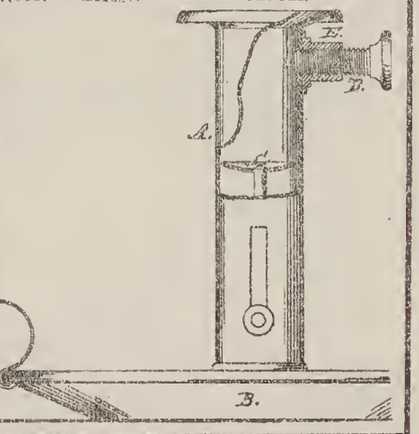
97,846, DANIEL WILLSON.
DUMPING-WAGON.



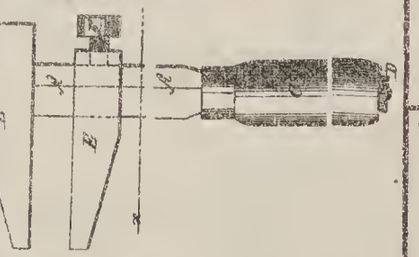
97,847, EDWIN L. YANCEY.
HARVESTER-KNIFE GRINDER.



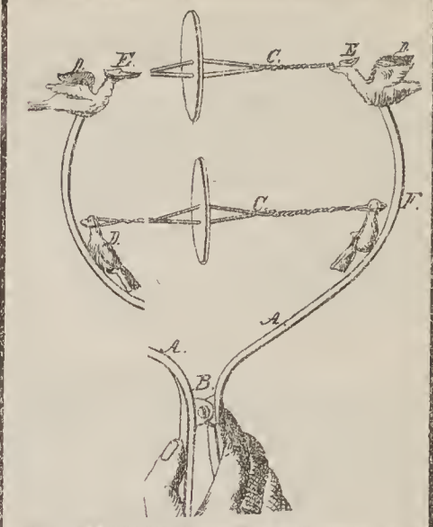
97,848. H. ZAHN CANDLESTICK.



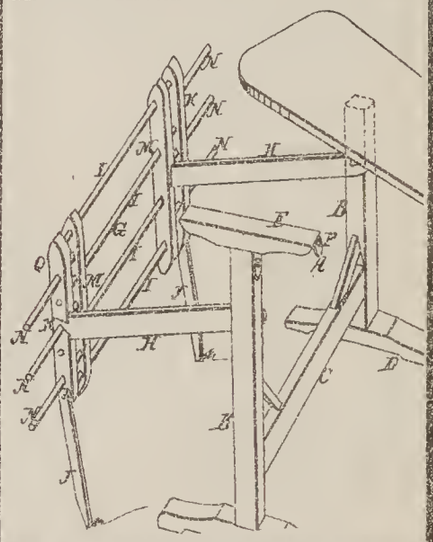
97,849, SAMUEL ZARLEY.
MONKEY-WRENCH.



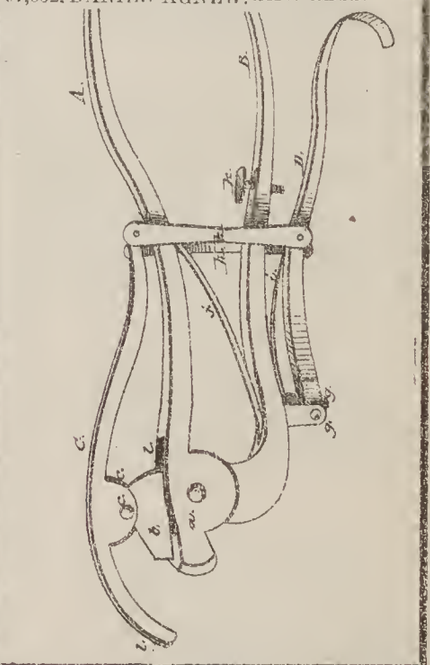
97,850, A. F. ABLE.
HUMMING-WHEEL TOY.



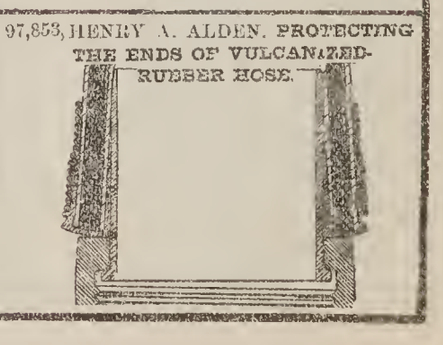
97,851, WM. P. ADAMS.
IRONING-TABLE AND CLOTHES-DRIER.



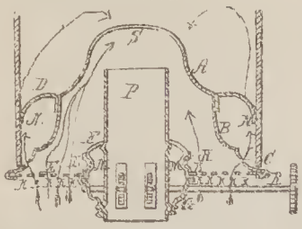
97,852. DANIEL AGNEW. SAW-SETS.



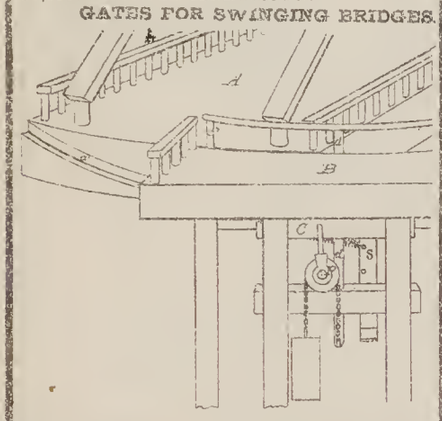
97,853, HENRY A. ALDEN. PROTECTING THE ENDS OF VULCANIZED-RUBBER HOSE.



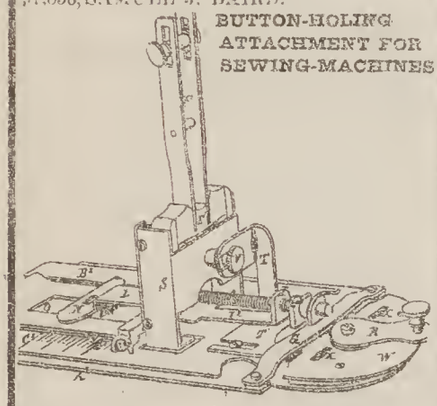
97,854, J. B. ALEXANDER.
LAMP-BURNERS.

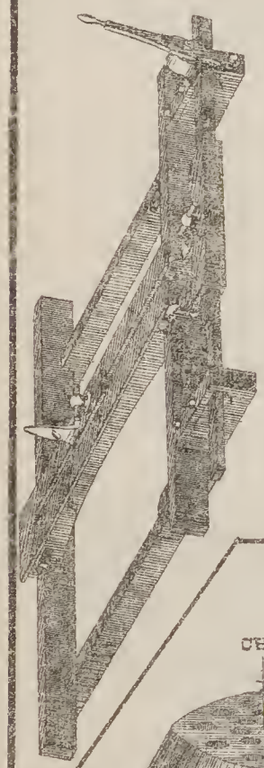


97,855, LAURITZ ANDERSON.
GATES FOR SWINGING BRIDGES.



97,856, SAMUEL J. BAIRD.
BUTTON-HOLING ATTACHMENT FOR SEWING-MACHINES

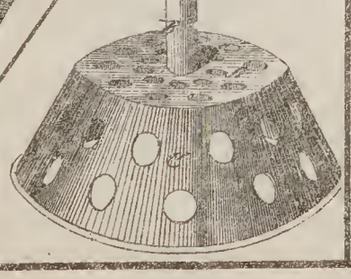




97,858, CHAS. B. BEALL.
HEAD-BLOCKS FOR SAW-MILLS.

97,857, JAS. L. BAUMER.
OIL-BLACKING

97,859,
A. BELT.
CHURN-DASHERS.



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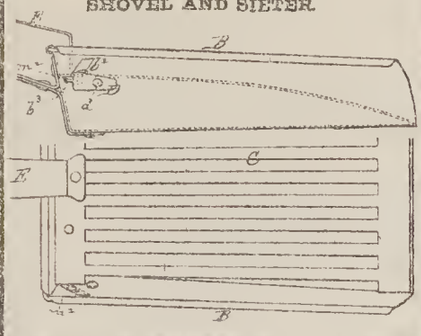
SHOVEL AND SIETER.



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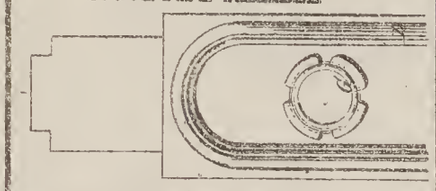

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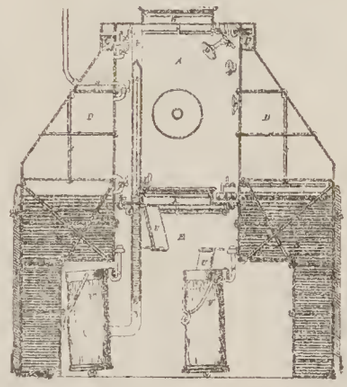

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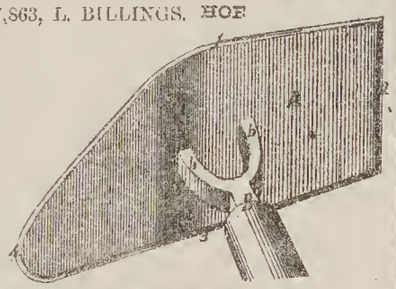

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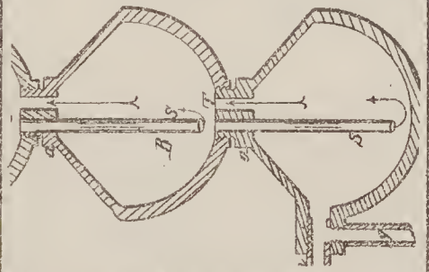
STEAM-GENERATORS.



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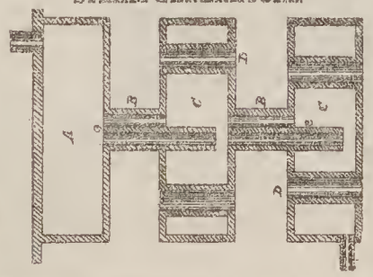

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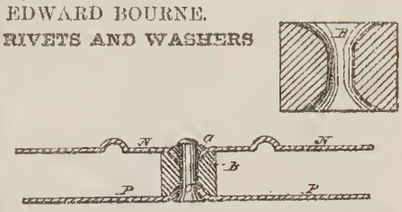
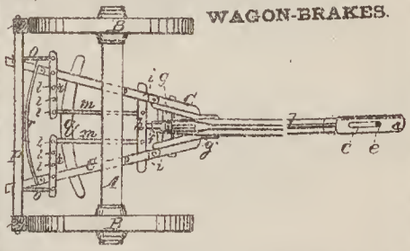
EDWARD BOURNE.
RIVETS AND WASHERS



97,867. WILLIAM H. BRADT.
WAGON-BRAKES.



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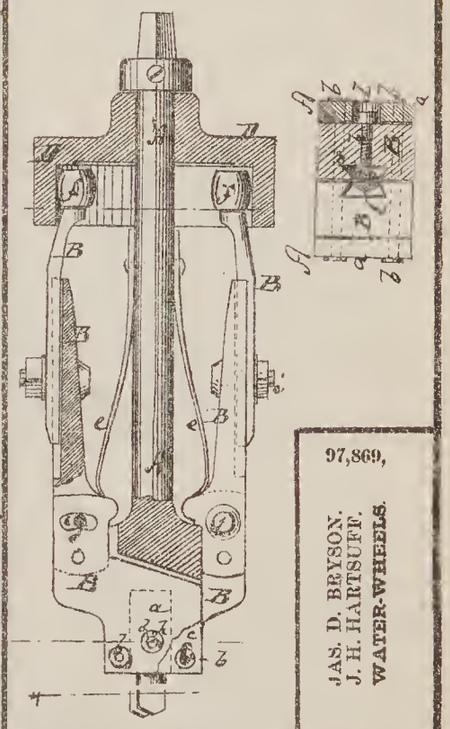

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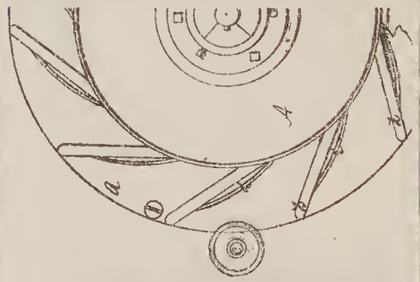
JAS. D. BRYSON.
J. H. HARTSUFF.
WATER-WHEELS.



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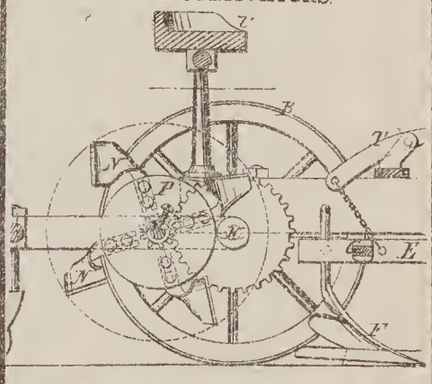
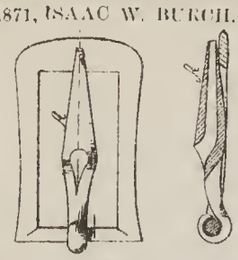
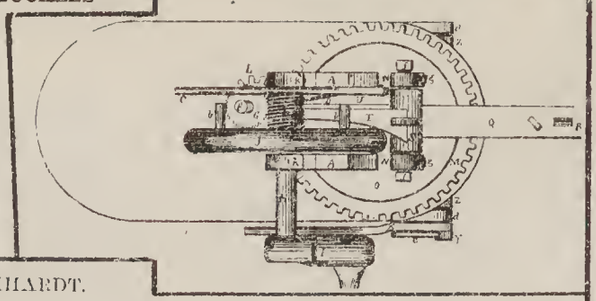
COTTON-CULTIVATORS.



97,871, ISAAC W. BURCH, BUCKLES





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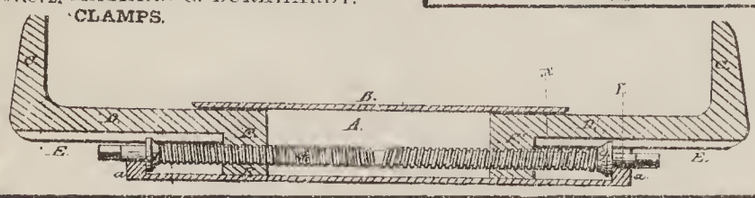
CLAMPS.



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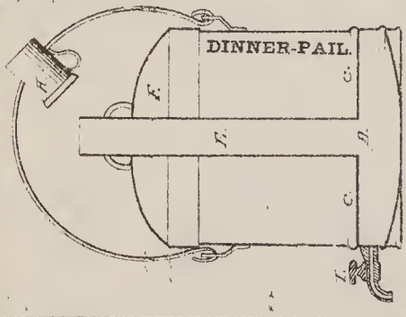
DINNER-PAIL.



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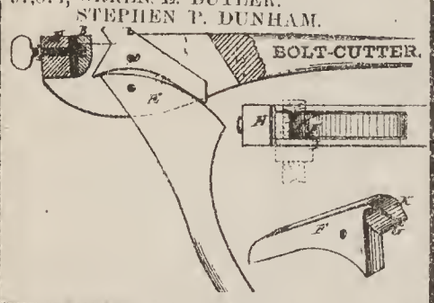
STEPHEN T. DUNHAM.
BOLT-CUTTER.



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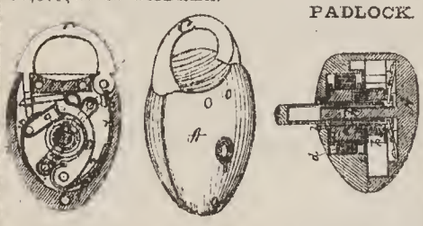
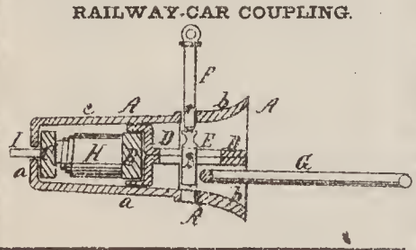
PADLOCK.



97,876, S. O. CAMPBELL.
RAILWAY-CAR COUPLING.



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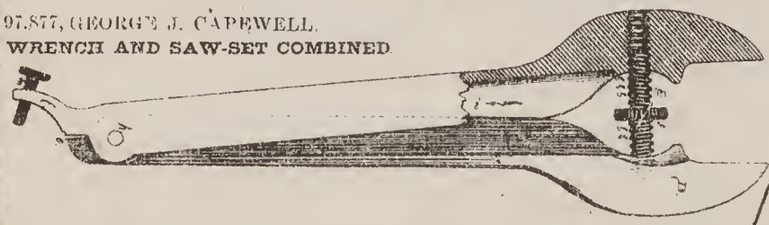
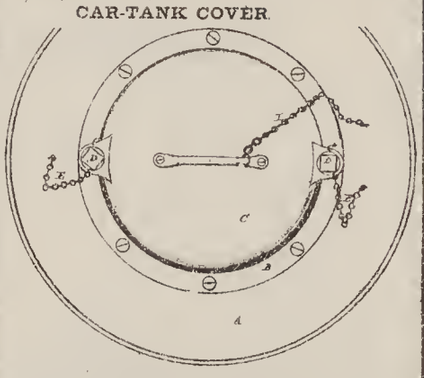
WRENCH AND SAW-SET COMBINED.



97,878, J. S. CARR.
MACHINE FOR DRESSING MILLSTONES.

97,879, L. C. CATTELL.
CAR-TANK COVER.



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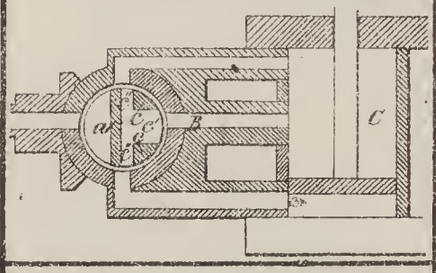
MANUFACTURE OF RUBBER SPONGE.

97,881, ABM. COATES.
VALVES FOR WATER-ENGINES.



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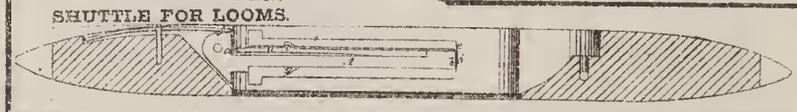
SHUTTLE FOR LOOMS.



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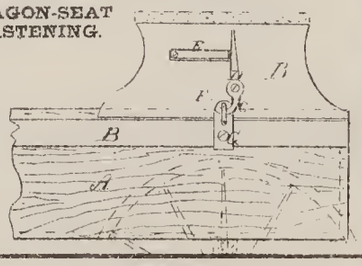
WAGON-SEAT FASTENING.



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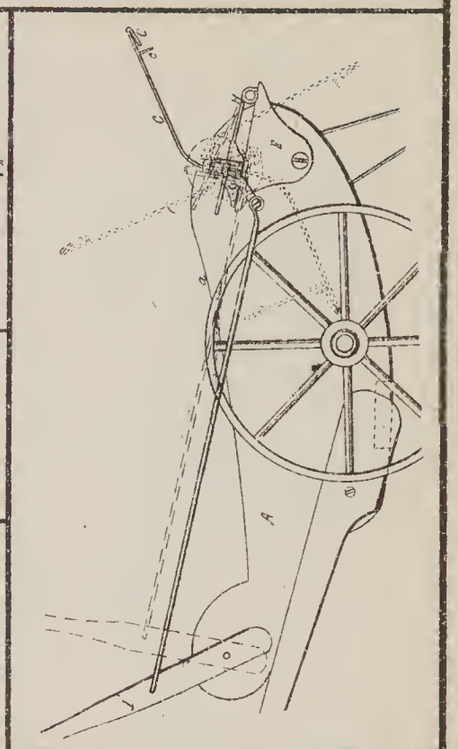
HARVESTERS.



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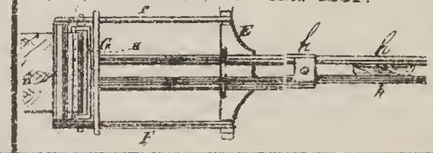

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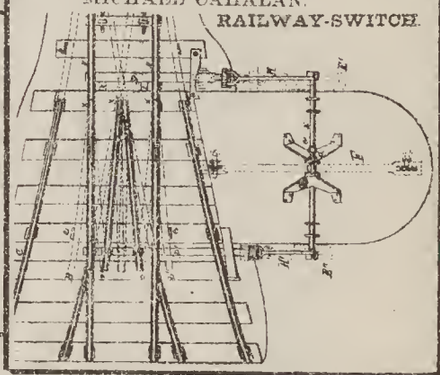
MICHAEL OAHALAN.
RAILWAY-SWITCH.



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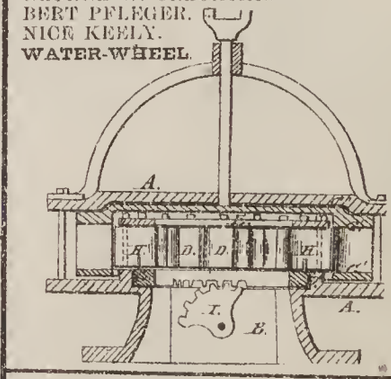
GEORGE W. CRESSMAN.
BERT PFLEGER.
NICE KEELY.
WATER-WHEEL.



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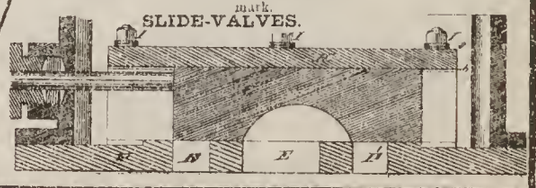
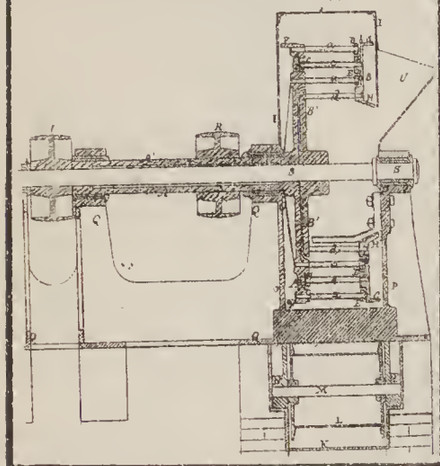
SLIDE-VALVES.

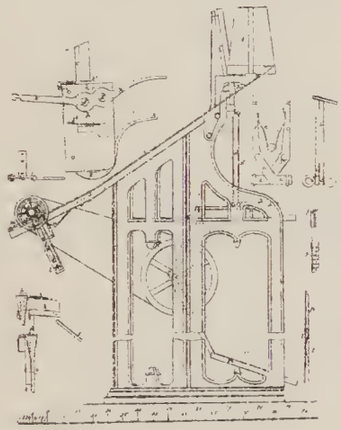


97,889, JOHN C. CROSMAN.
OBADIAH MARLAND
TREATING WHISKEY AND OTHER ALCOHOLIC SPIRITS.

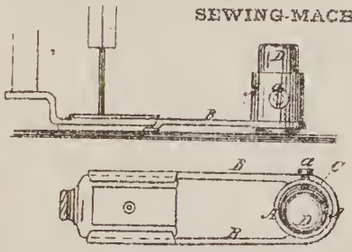
97,890, GARRET B. DAVIDS.
DISINTEGRATING-MILLS.



97,891, I. DELCAMBRE.
MACHINES FOR COMPOSING AND DISTRIBUTING TYPE.

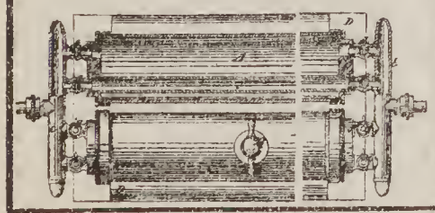


97,892 MARY DEWEY.
SOAP-HOLDING ATTACHMENT FOR SEWING-MACHINE.



97,893, JULIUS EDMUND DOTCH.
CONCRETE FOR PAVING AND FOR OTHER PURPOSES.

97,894, JOS. W. DOUGLAS.
APPARATUS FOR EXTINGUISHING FIRES BY MEANS OF CHEMICAL AGENTS.



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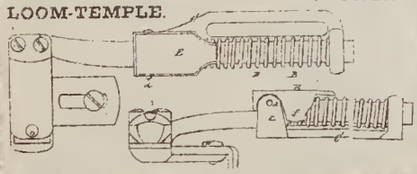
LOOM-TEMPLE.



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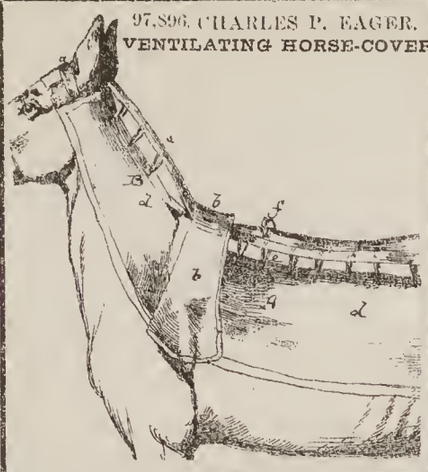
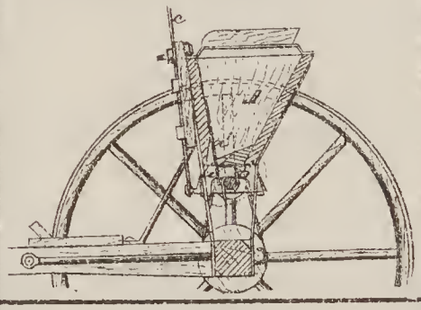
VENTILATING HORSE-COVER

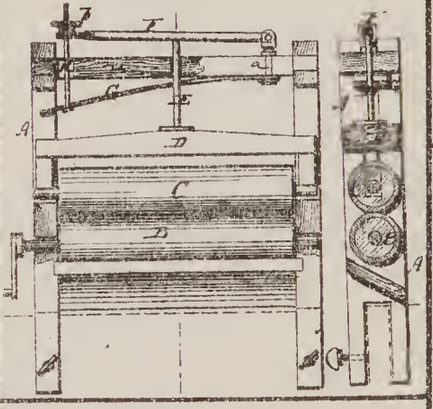


97,897, WILLIAM ENNIS.
MANUFACTURE OF IRON AND STEEL.

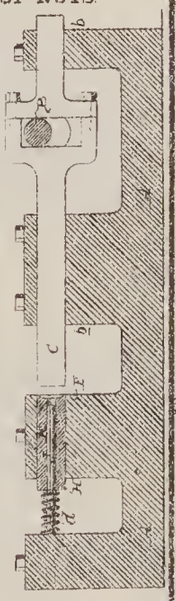
97,898, JAMES FINLAYSON.
SEEDING-MACHINES.



97,899, M. M. FOLLETT.
CLOTHES-WRINGER.

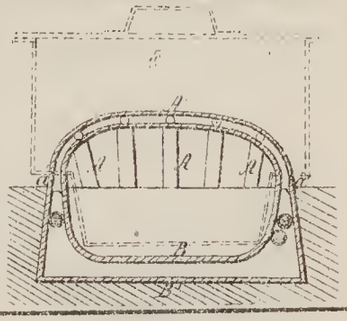


97,901. MANUFACTURE OF NUTS.
JOSHUA W. GASKILL
JAMES CHRISTIE.

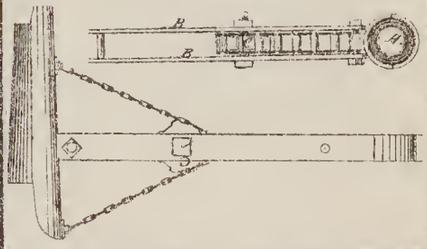


97,900.
C. A. GALE.
BLOTTING-PADS.

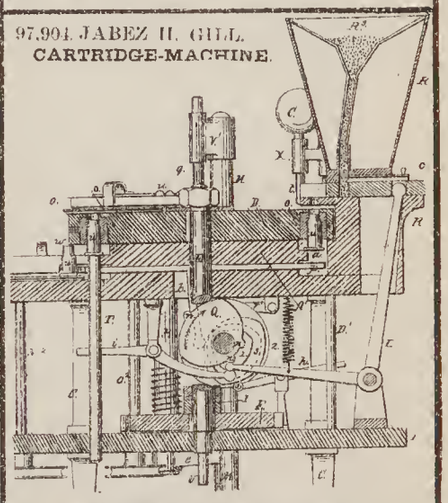
97,902. EDWIN H. GIBBS
FIRE-PLACE.



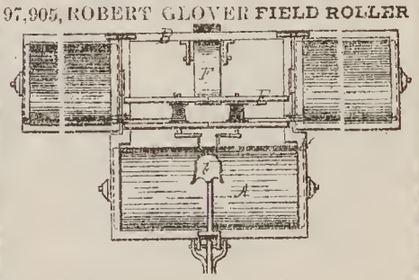
97,903. JACOB F. GIBSON. GRAIN-DRILLS



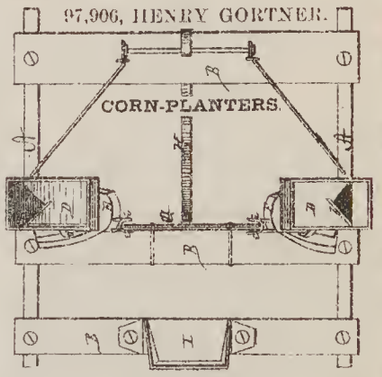
97,904. JABEZ H. GILL.
CARTRIDGE-MACHINE.



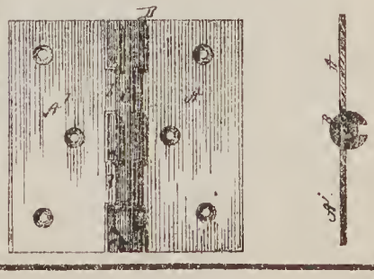
97,905, ROBERT GLOVER FIELD ROLLER



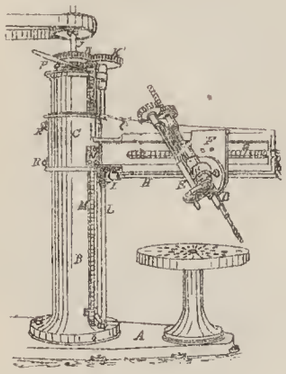
97,906, HENRY GORTNER.
CORN-PLANTERS.



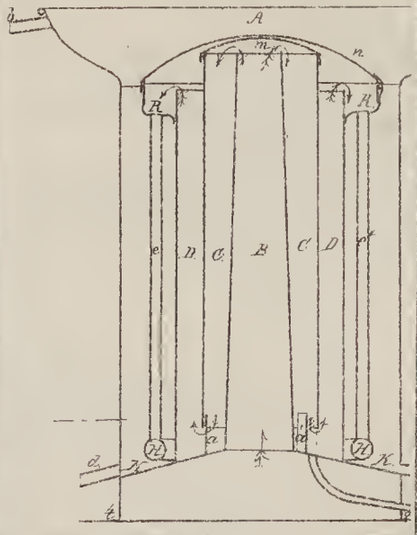
97,907 D. R. GOULD. HINGE.



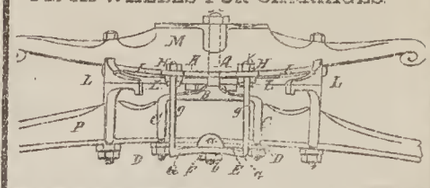
97,908, G. A. GRAY, Jr.
RADIAL DRILLING-MACHINE.



97,914, AMBROSE HAZZARD.
CONDENSING-COLUMN FOR STILLS



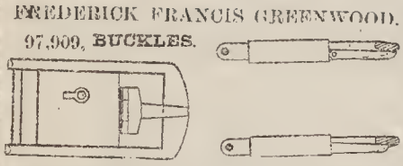
97,919. RICHARD HOADLY.
FIFTH-WHEELS FOR CARRIAGES.



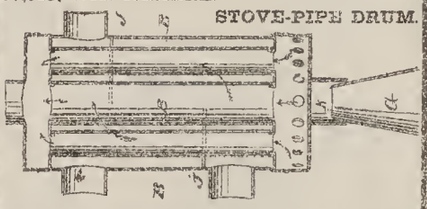
97,920,
D. IRVING HOLCOMB.
FRUIT-JARS.

97,921,
JOHN C. HOLMES.
CORN-CULTIVATORS

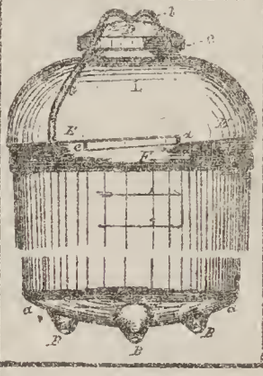
FREDERICK FRANCIS GREENWOOD.
97,909, BUCKLES.



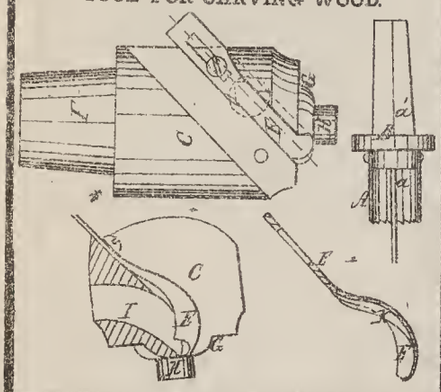
97,915, WM. HEARLE.
STOVE-PIPE DRUM.



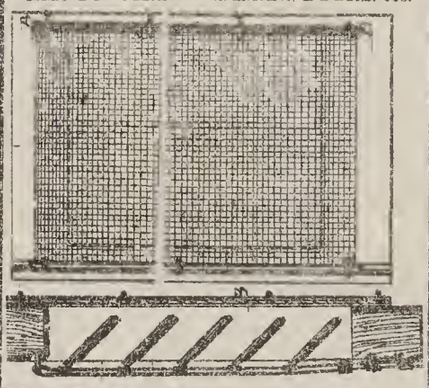
97,922, FRUIT-JARS
THOMAS HOUGHTON.
HENRY H. HOUGHTON



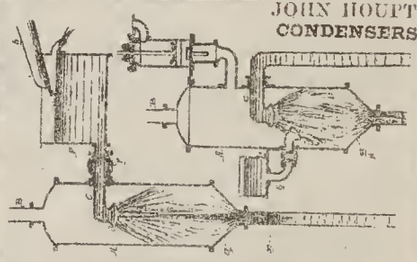
97,910, LOUIS L. GUNTHER.
TOOL FOR CARVING WOOD.



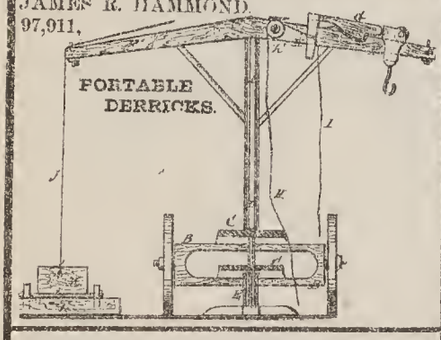
97,916. JAMES HEBRON.
MEANS FOR ATTACHING MOSQUITO-BARS TO WINDOW-BLINDS, DOORS, &c.



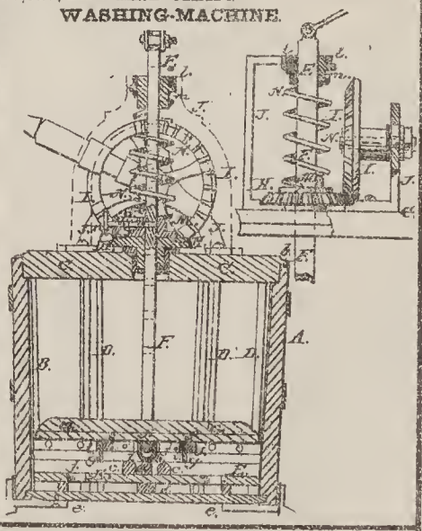
97,923.
JOHN HOUPT.
CONDENSERS.



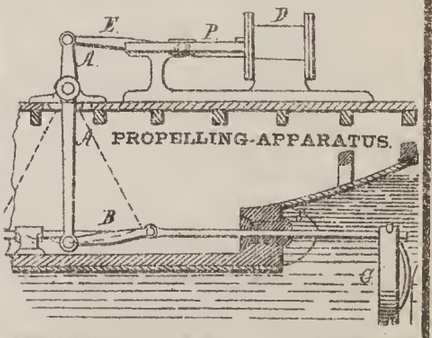
JAMES R. HAMMOND.
97,911,
FORTABLE DERRICKS.



97,917, EDWARD HEIM.
WASHING-MACHINE.

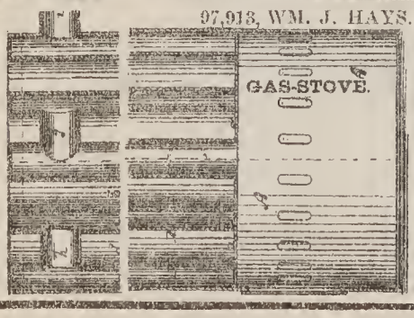


97,924. ROBERT HUNTER.

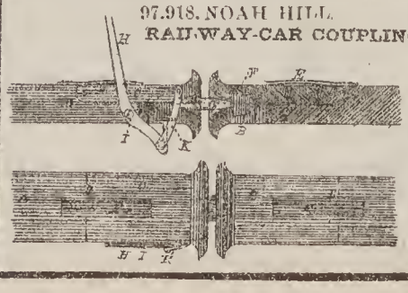


97,912, B. R. HAWLEY. COAL-STOVE.

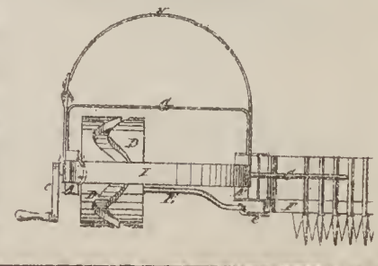
97,913, WM. J. HAYS.
GAS-STOVE.



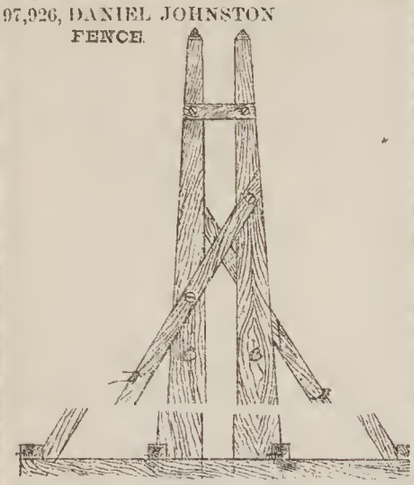
97,918. NOAH HILL.
RAILWAY-CAR COUPLING.



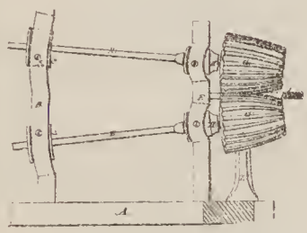
97,925, ASAHEL H. HUSSEY.
HEDGE-TRIMMER.



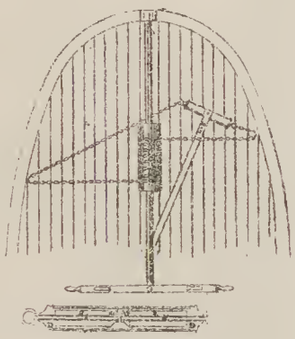
97,926, DANIEL JOHNSTON
FENCE.



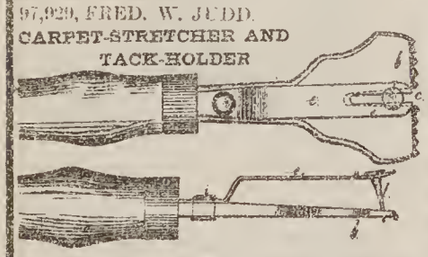
97,927, JAMES M. JONES. SAW-SETS.



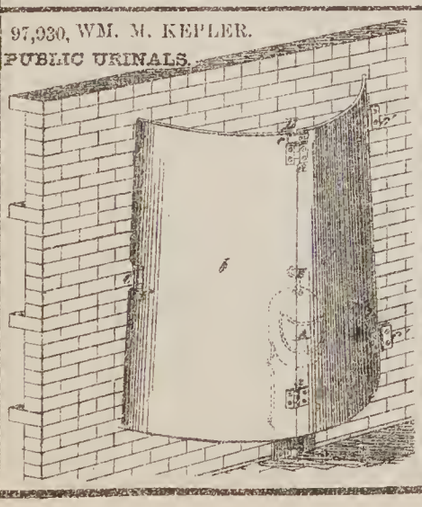
97,928. J. A. JOYNER.
RUBBER SPRINGS FOR USE IN SHIPS CARS. AND FOR OTHER PUR- POSES.



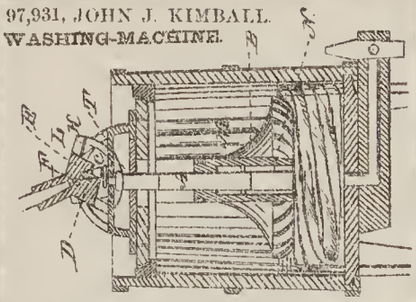
97,929, FRED. W. JUDD.
CARPET-STRETCHER AND TACK-HOLDER



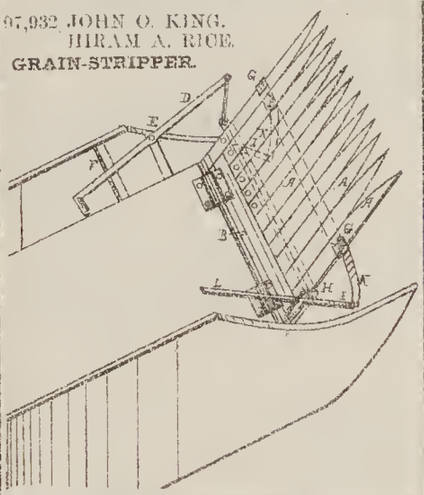
97,930, WM. M. KEPLER.
PUBLIC URINALS.



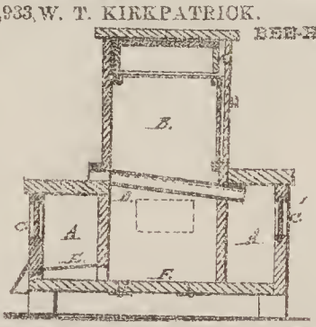
97,931, JOHN J. KIMBALL.
WASHING-MACHINE.



97,932 JOHN O. KING.
HIRAM A. RICE.
GRAIN-STRIPPER.

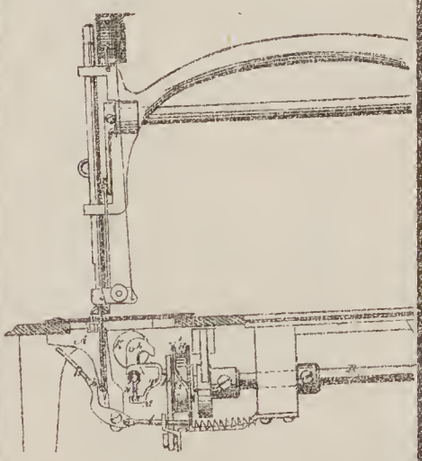


97,933, W. T. KIRKPATRICK.
BEE-HIVES.

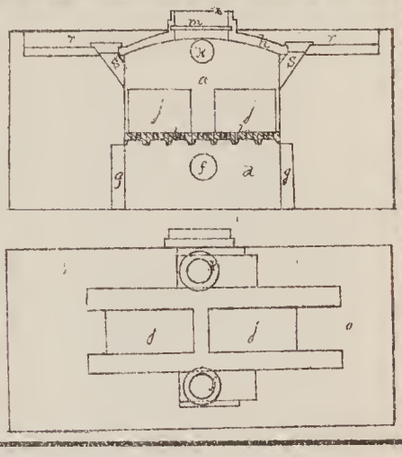


97,934, G. W. LARGE. LATCH.

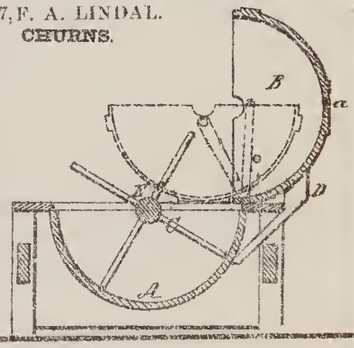
97,935, L. W. LATHROP
SEWING-MACHINE



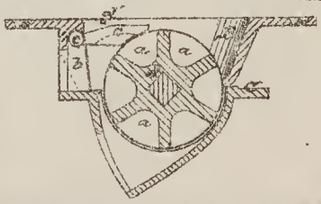
97,936, GEORGE T. LEWIS.
EAYRE O. BARTLETT
MANUFACTURE OF
DRY WHITE LEAD.



97,937, F. A. LINDAL.
CHURNS.

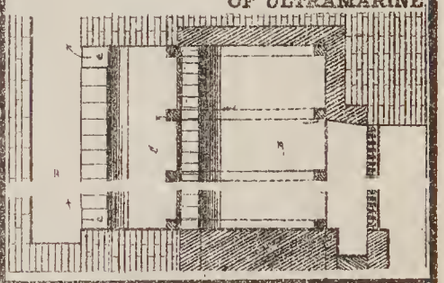


97,938, M. F. LOWTH.
T. J. HOWE.
SEEDING-MACHINES.



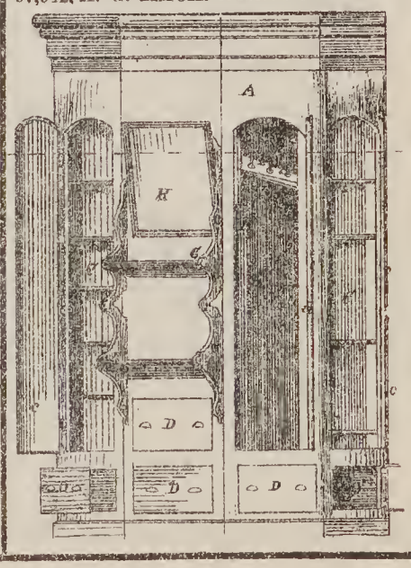
97,939, ORAZIO LUGO.
FERTILIZER OR GUANO.

97,940, HENRY A. LUDWIG.
FURNACES FOR THE MANUFACTURE OF ULTRAMARINE

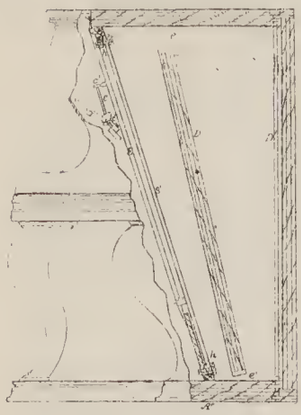


97,941. HENRY A. LUDWIG.
MANUFACTURE OF ULTRAMARINE

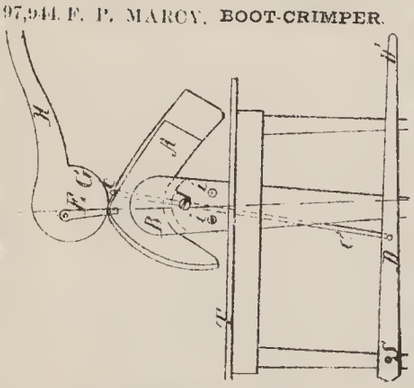
97,942, A. G. MACK. WARDROBE.



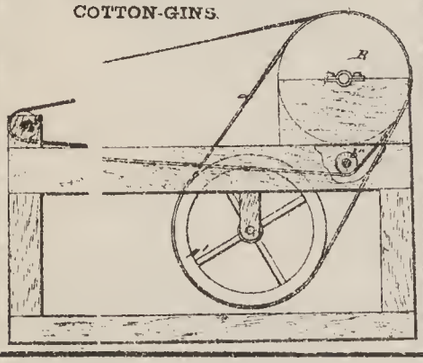
97,943, G. C. MANNER UPRIGHT PIANOS.



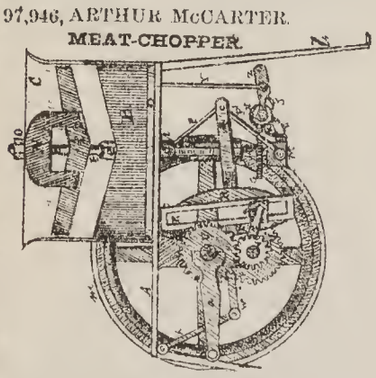
97,944, F. P. MARCY, BOOT-CRIMPER.



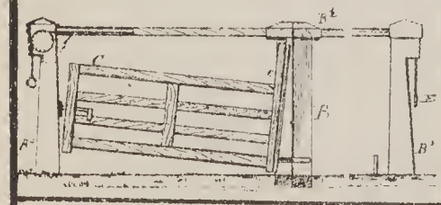
97,945, W. L. MAY.
MECHANISM FOR DRIVING COTTON-GINS.



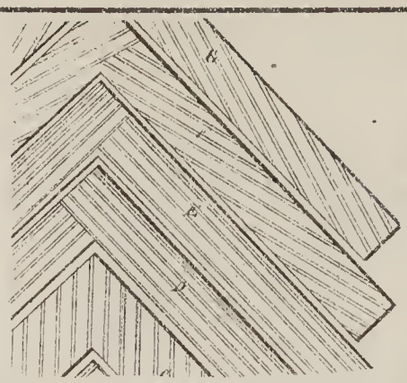
97,946, ARTHUR McCARTER.
MEAT-CHOPPER.



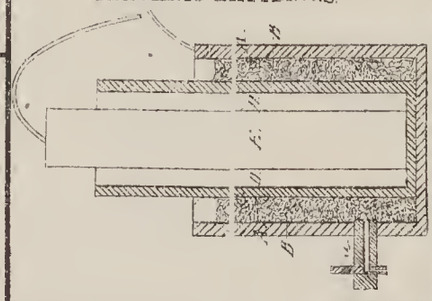
97,947, F. H. McGEORGE.
GATES



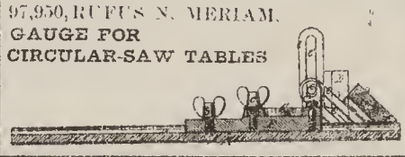
97,948,
ALEXANDER McPHERSON.
CONSTRUCTION OF BUILDINGS.



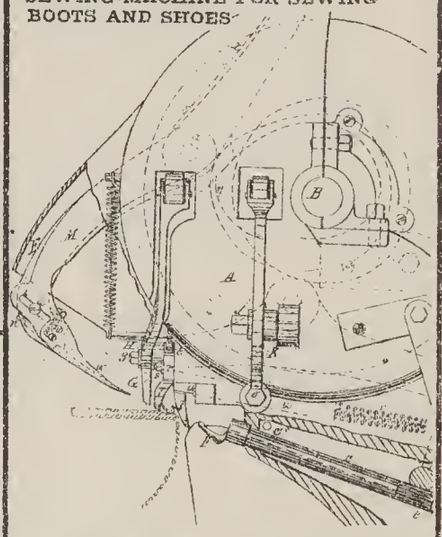
97,949, JAMES R. McPHERSON.
GALVANIC BATTERIES.



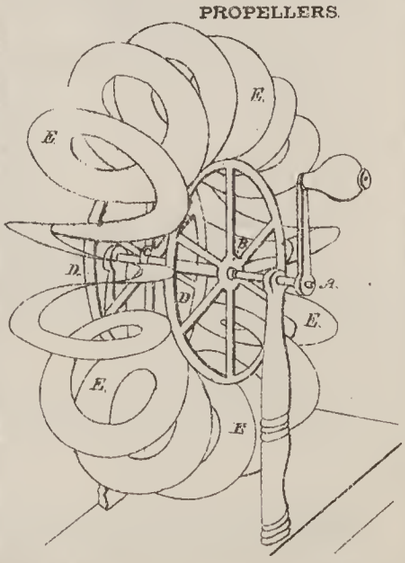
97,950, RUFUS N. MERIAM.
GAUGE FOR CIRCULAR-SAW TABLES



97,951, DANL. MILLS.
SEWING-MACHINE FOR SEWING BOOTS AND SHOES.

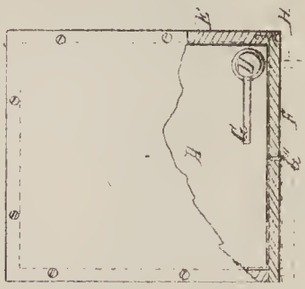


97,952, SIMON B. MOREY.
PROPELLERS.

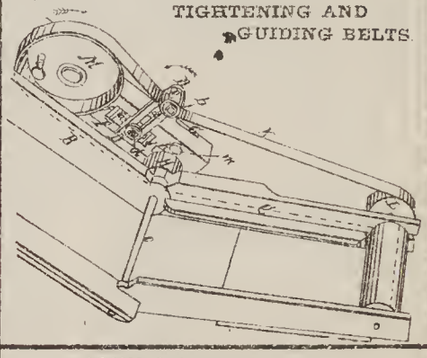


97,953, C. B. MORSE.
CAST-STEEL TUBE OR INGOT.

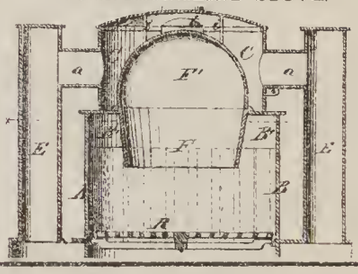
97,954, JNO. McLEOD MURPHY.
PACKING-CASES FOR OIL-CANS.



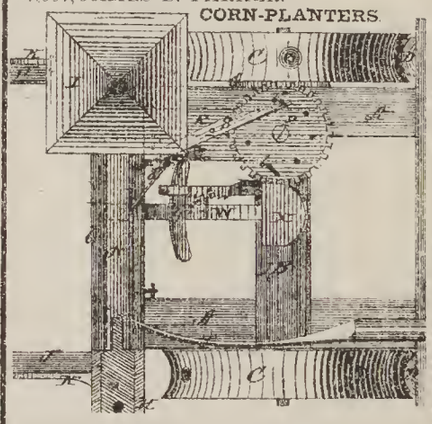
97,955, CHARLES K. MYERS.
TIGHTENING AND GUIDING BELTS.



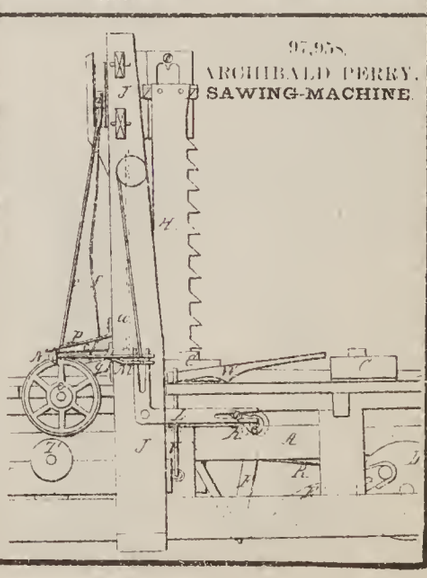
97,956, JOHN J. MYERS.
FUEL-MAGAZINE STOVE.



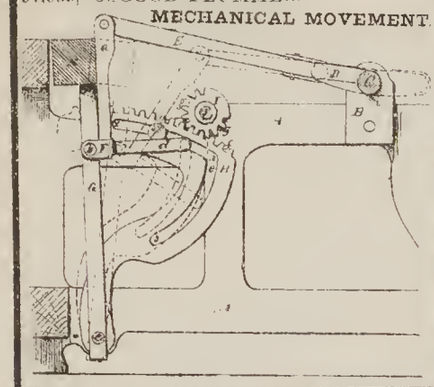
97,957, JAMES B. PARKER.
CORN-PLANTERS.



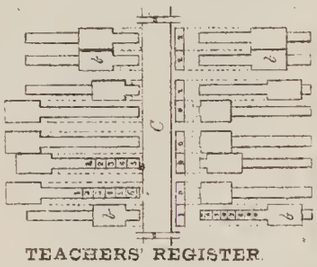
97,958,
ARCHIBALD PERRY.
SAWING-MACHINE.



97,959, OSGOOD PLUMMER.
MECHANICAL MOVEMENT.

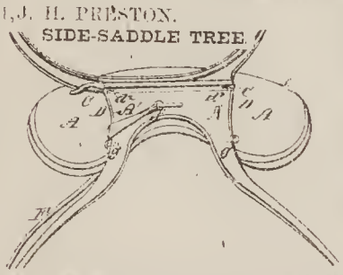


97,960, W. N. POULSON, W. S. POULSON.



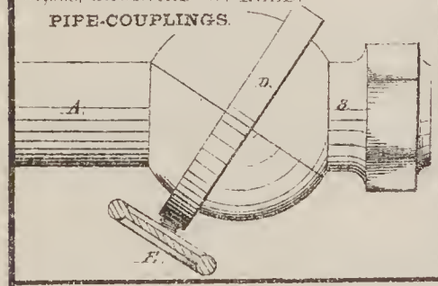
TEACHERS' REGISTER.

97,961, J. H. PRESTON.
SIDE-SADDLE TREE.

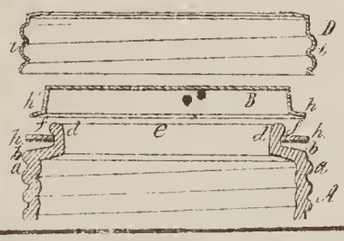


97,962, F. V. RAMEL.
PROCESS OF PREPARING PLANTS TO BE USED IN CIGARS, SNUFF, &c.

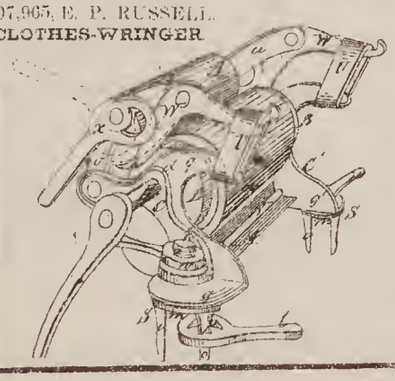
97,963, LEONARD W. REED.
PIPE-COUPLINGS.



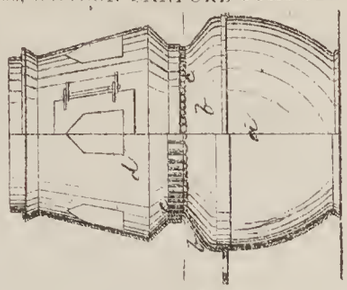
97,964 S. B. ROWLEY FRUIT-JARS.



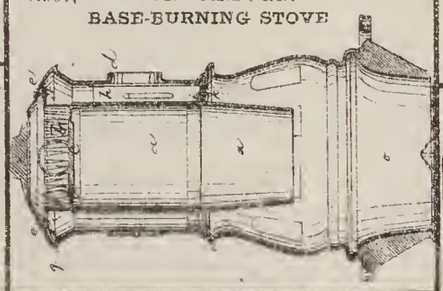
97,965, E. P. RUSSELL.
CLOTHES-WRINGER.



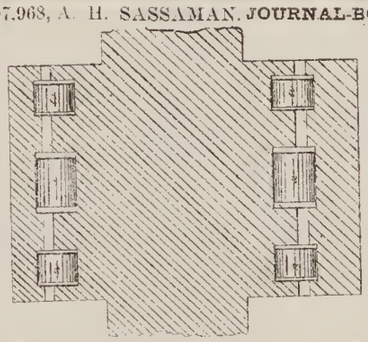
97,966, WATSON SANFORD COAL-STOVE



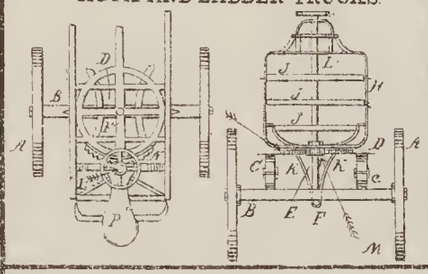
97,967, WATSON SANFORD.
BASE-BURNING STOVE



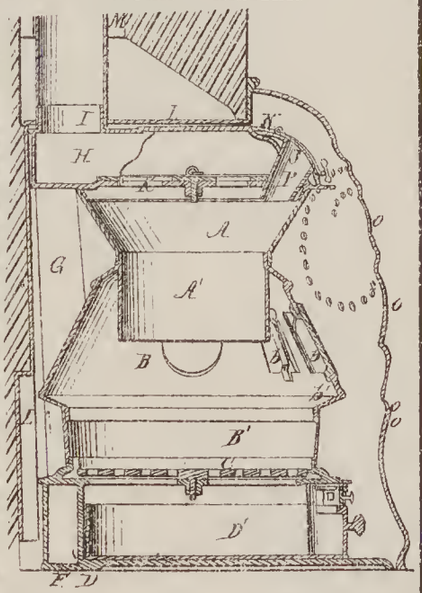
97,968, A. H. SASSAMAN. JOURNAL-BOX.



97,969, JACOB SCHMIDLAPP.
HOOK-AND-LADDER TRUCKS.

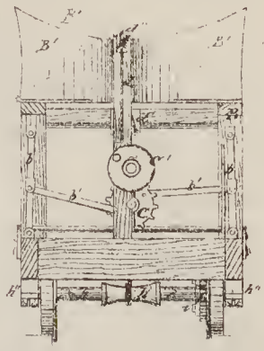


97,970, SAMUEL B. SEXTON.
FIRE-PLACE HEATER.

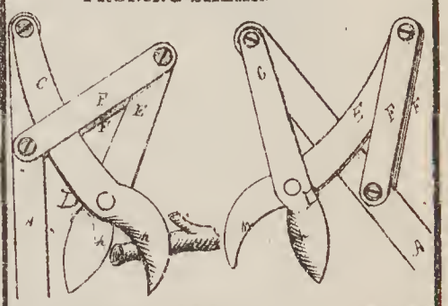


97,972, WM. ANTHONY SHAW.
COMPOSITION-METAL FOR TUBING, PIPES, AND SHEETING.

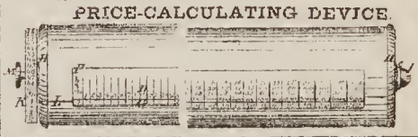
97,971, THOMAS L. SHAW
SNOW-PLOW FOR RAILWAYS



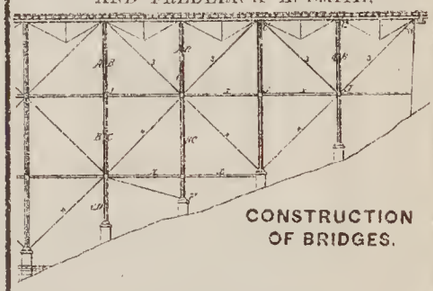
97,973, JOHN H. SHEHAN.
PRUNING-SHEARS.



97,974, ALBERT SINCLAIR.
PRICE-CALCULATING DEVICE.

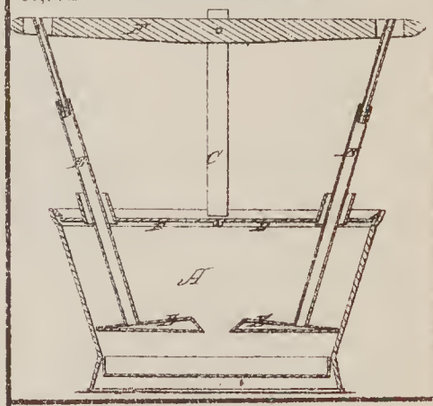


97,975, C. SHALER SMITH, C. H. LATROBE, AND FREDERICK H. SMITH.

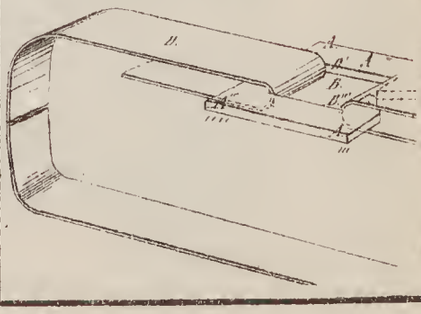


CONSTRUCTION OF BRIDGES.

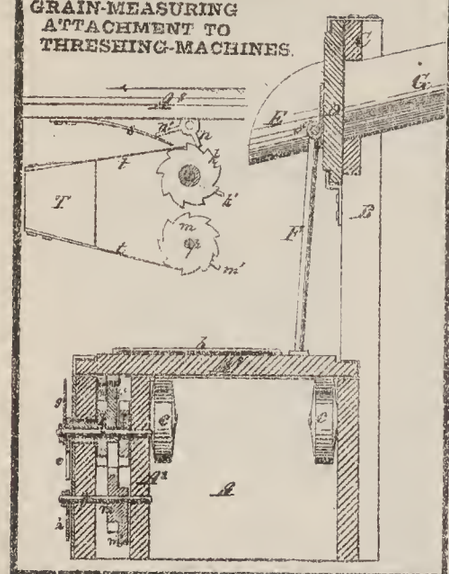
97,976 SIMON SMITH CHURNS



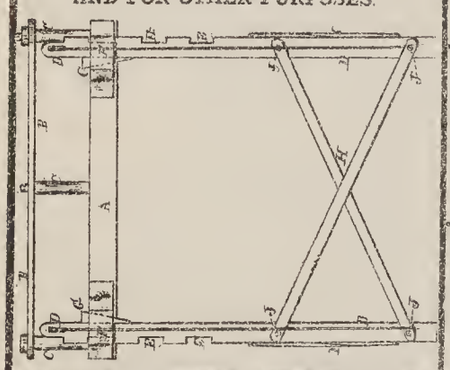
97,977, WILLIAM M. SMITH
COTTON-BALE TIES.



97,978, N. A. WOKKMAN.
GRAIN-MEASURING ATTACHMENT TO THRESHING-MACHINES.



97,979, ANDREW J. WRIGHT.
SCAFFOLD FOR GATHERING FRUIT, AND FOR OTHER PURPOSES.



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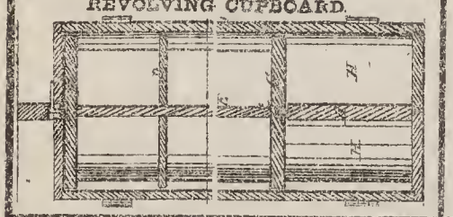
REVOLVING CUPBOARD.



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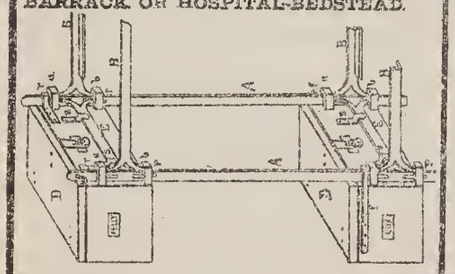
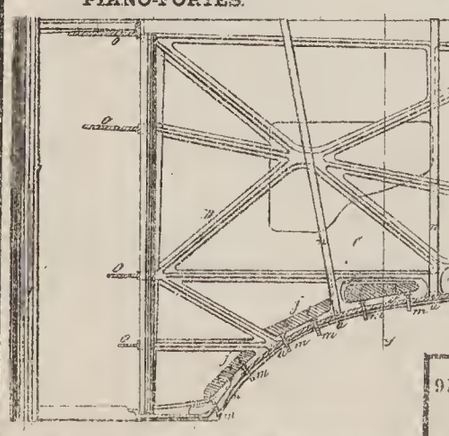
BARRACK OR HOSPITAL-BEDSTEAD.

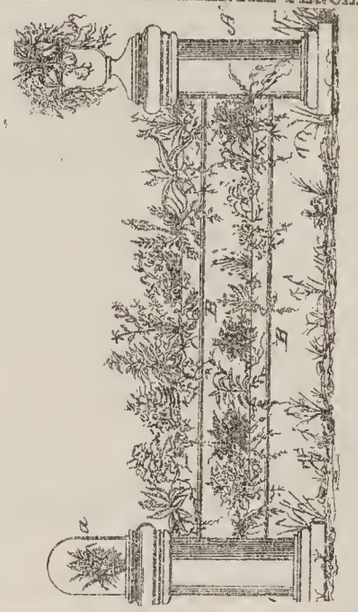


97,982, C. F. TH. STEINWAY.
PIANO-FORTES.

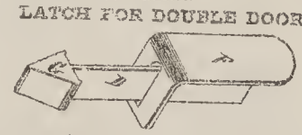


97,983, JOHN STENHOUSE.
WATER-PROOFING FABRICS.

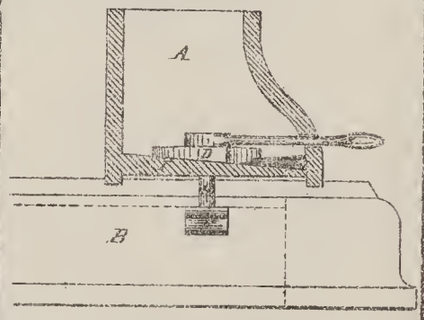
97,984, ELIZABETH MARY STIGALE.
RAILS FOR ORNAMENTAL FENCE.



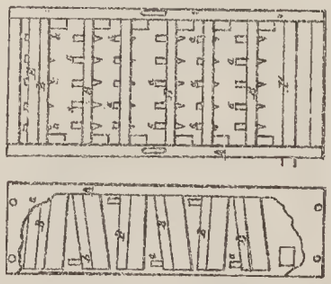
97,985, JOHN W. STILL.
LATCH FOR DOUBLE DOORS.



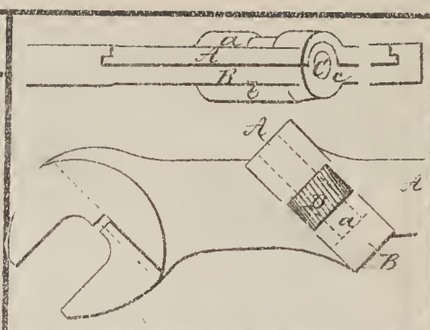
97,986, JAMES G. STOWE.
LATHE-FASTENING.



97,987, A. D. STRONG.
VINEGAR-APPARATUS.

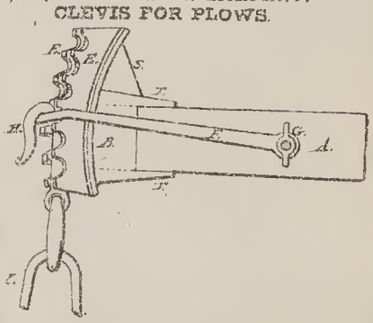


97,988, GEO. C. TAFT.
WRENCHES.



97,989, WILLIAM TANSLEY.
BARK-MILLS

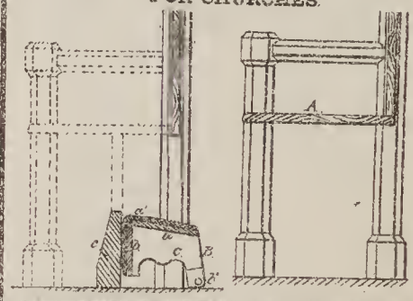
97,990, JEREMIAH H. TARPLEY.
CLEVIS FOR PLOWS.



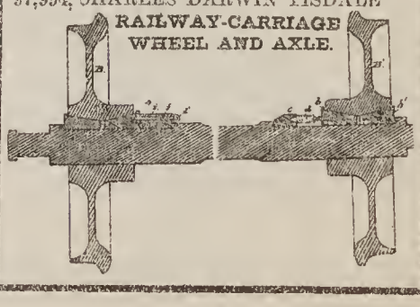
97,991, ALBERT L. TAYLOR.
HANDLES FOR KNIVES.

97,992, DANIEL THACKARA.
MAKING BRICKS, TILES, &c

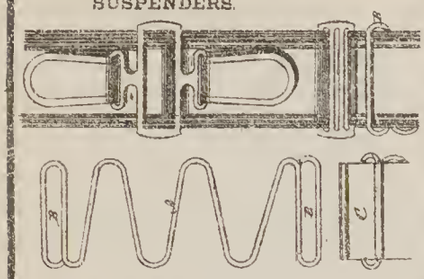
97,993, JAS. P. TIBBITS.
FOOT AND KNEELING-STOOL FOR CHURCHES.



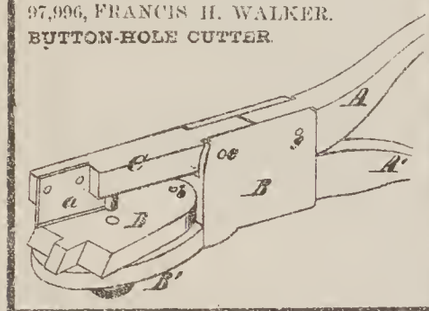
97,994, CHARLES DARWIN TISDALE
RAILWAY-CARRIAGE WHEEL AND AXLE.



97,995, CASPER VAN HOESEN.
SUSPENDERS.



97,996, FRANCIS H. WALKER.
BUTTON-HOLE CUTTER.



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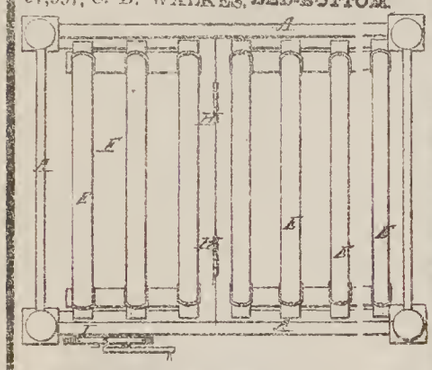
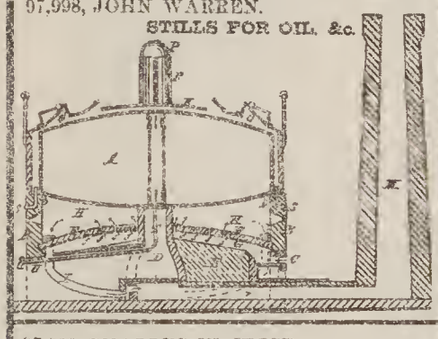
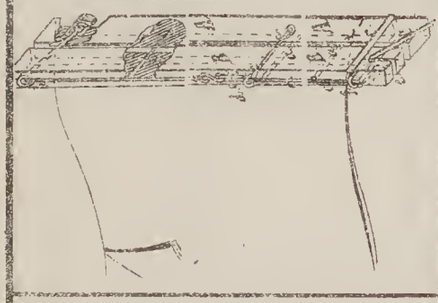


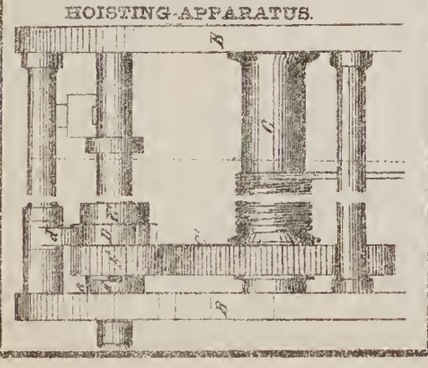
97,998, JOHN WARREN.
STILLS FOR OIL, &c.



97,999, CHARLES W. WEST
PAPER-FILES.



98,000, THOS. A. WESTON.
HOISTING-APPARATUS.



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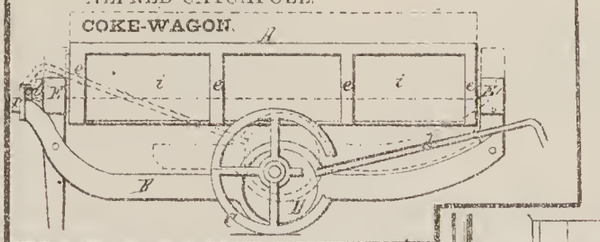
ALFRED CATCHPOLE.
COKE-WAGON.



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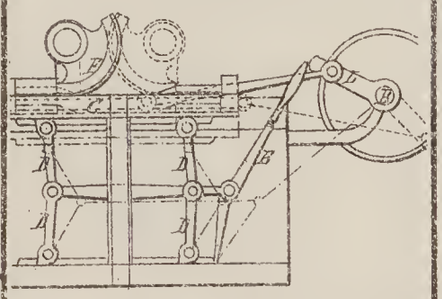
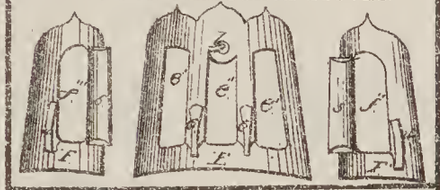
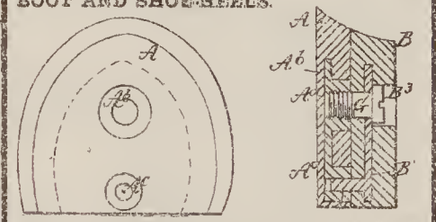
R. McCHESNEY. MACHINE FOR
MAKING CARRIAGE-CLIPS.



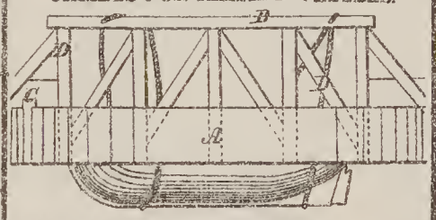
98,003, WILLIAM E. WOOD.
DOORS FOR FIRE-PLACE STOVES.



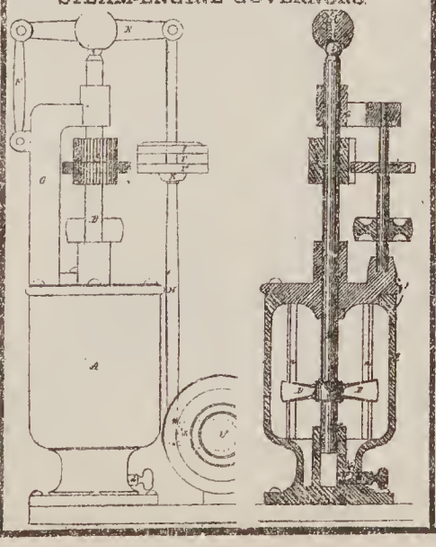
98,004, JOHN CHANDOS WOODHEAD.
INTERCHANGEABLE
BOOT AND SHOE-HEELS.



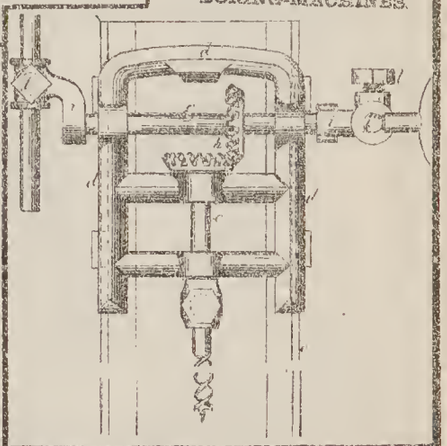
98,005, SAMUEL WOOLSTON.
CAMELS FOR RAISING VESSELS.



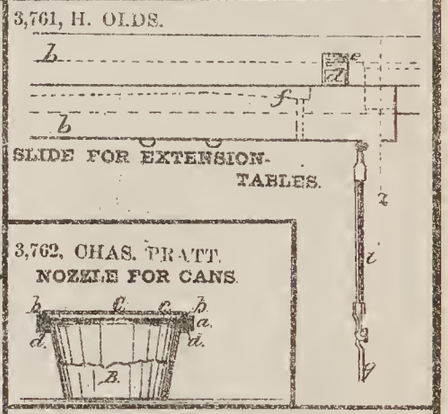
REUBEN KIDEN HUNTOON.
3,759, JOHN AUGUSTUS LYNCH.
STEAM-ENGINE GOVERNORS.



3,760,
THEODORE MACE.
VARIABLE CRANK FOR
BORING-MACHINES.



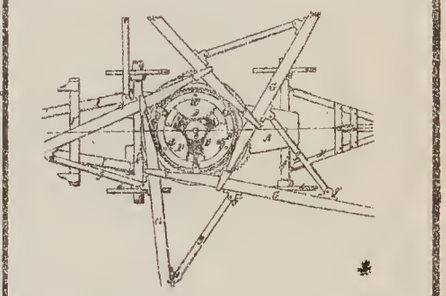
3,761, H. OLDS.



SLIDE FOR EXTENSION-
TABLES.

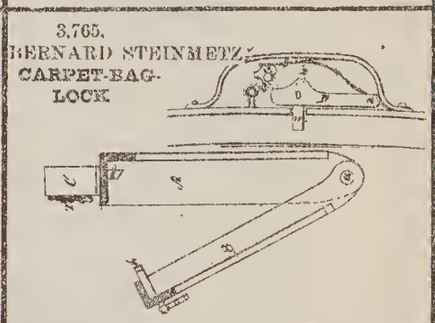
3,762, CHAS. PRATT.
NOZZLE FOR CANS.

3,763, CYRUS ROBERTS, HORSE-POWER.
JOHN A. THROP.

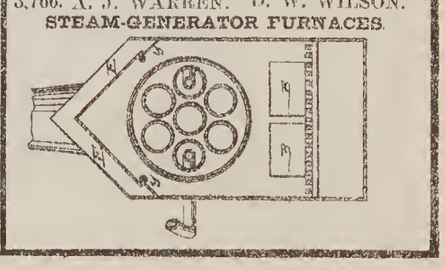


3,764, EDWARD SEELEY.
CONCRETE PAVEMENTS.

3,765.
BERNARD STEINMETZ.
CARPET-BAG-
LOCK.



3,766. A. J. WARREN. D. W. WILSON.
STEAM-GENERATOR FURNACES.



ILLUSTRATIONS OF PATENTS

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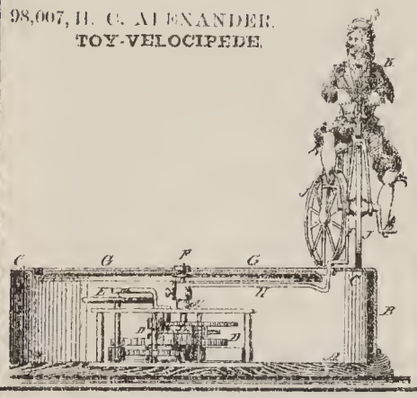
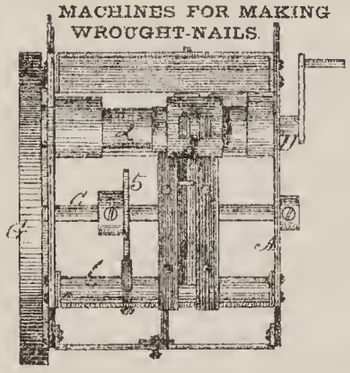
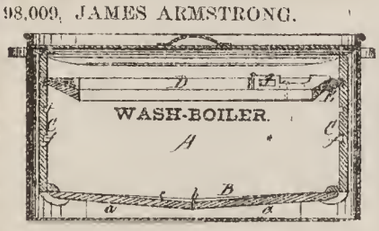
98,007, H. C. ALEXANDER.
TOY-VELOCIPEDE.



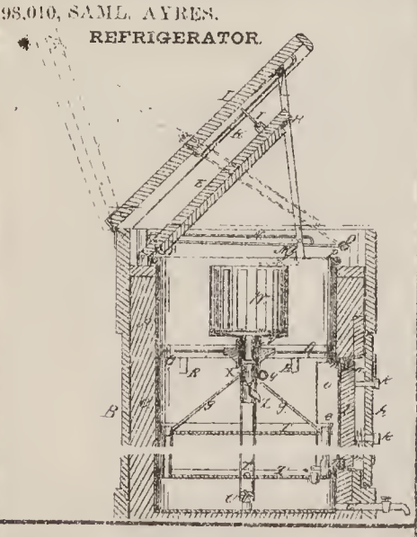
98,008, DANIEL ARMSTRONG
MACHINES FOR MAKING WROUGHT-NAILS.



98,009, JAMES ARMSTRONG.
WASH-BOILER.

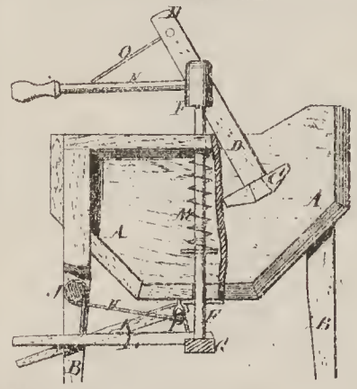


98,010, SAML. AYRES.
REFRIGERATOR.

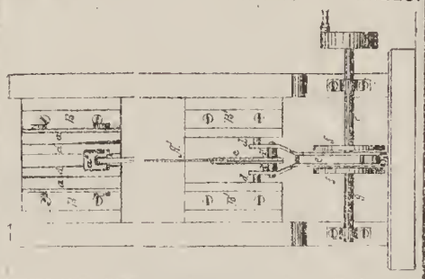


98,011, GEO. C. BAILEY.
HYDRANTS.

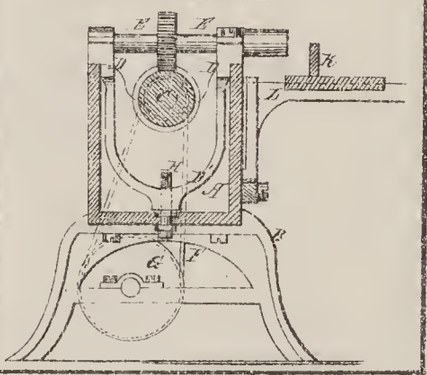
98,012, JOSEPH BALSLEY.
WASHING-MACHINE.



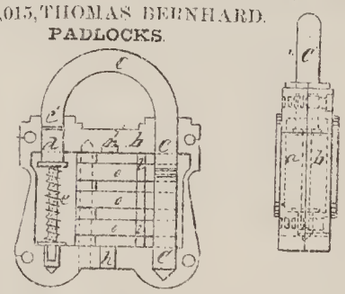
98,013, ASHBELL P. BARLOW, SAW-MILLS.



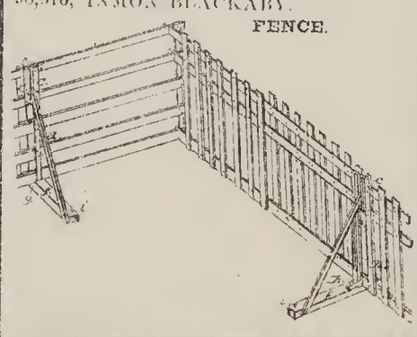
98,014, E. C. BARTON.
BORING-MACHINE.



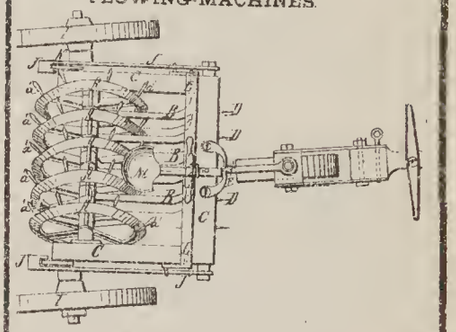
98,015, THOMAS BERNHARD.
PADLOCKS.



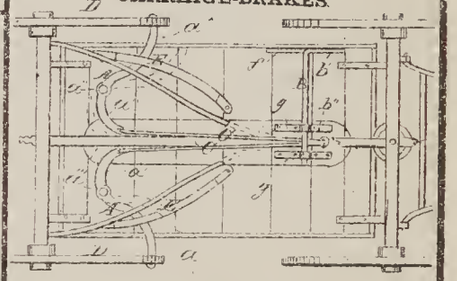
98,016, INMON BLACKABY.
FENCE.



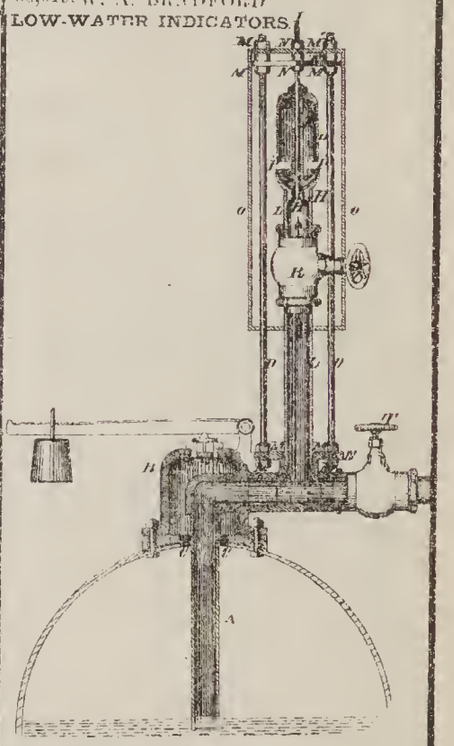
98,017, ALBERT BONDELI.
PLOWING-MACHINES.



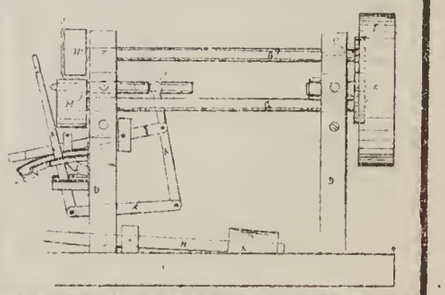
98,018, A. S. BOYER.
CARRIAGE-BRAKES.



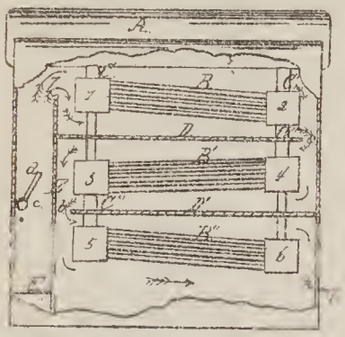
98,019, W. A. BRADFORD
LOW-WATER INDICATORS.

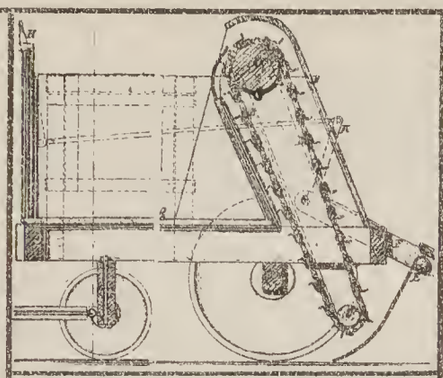


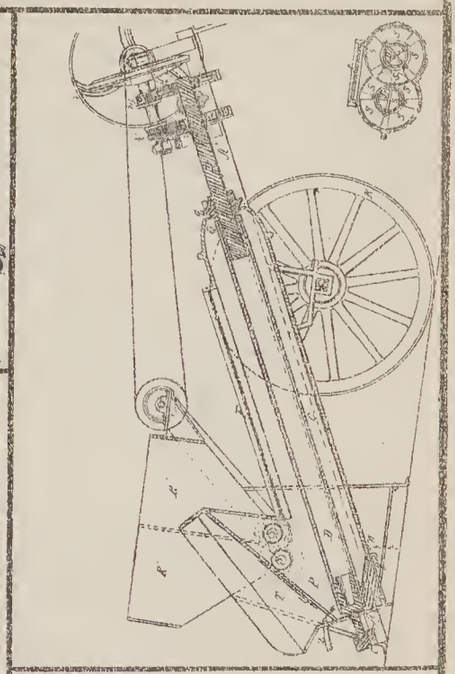
98,020 ROBT. BRIGGS.
MACHINE FOR MAKING FERRULES.



98,021, M. S. BRINGIER.
STEAM-GENERATORS.

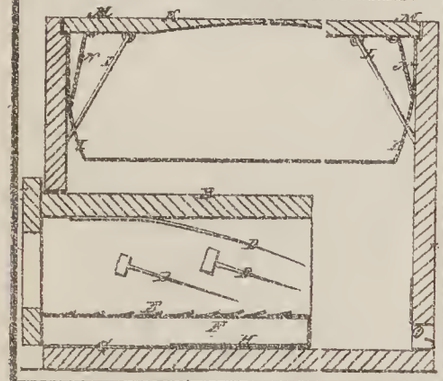




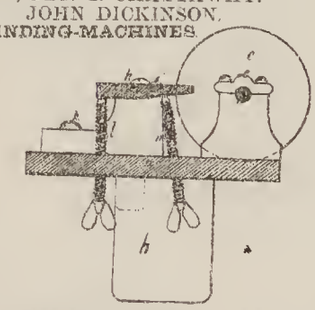


98,022, THEODOR BRINKMANN.
FIRE AND WATER-PROOF PAINT.

98,023. ADAM BROWN. ANIMAL-TRAP.

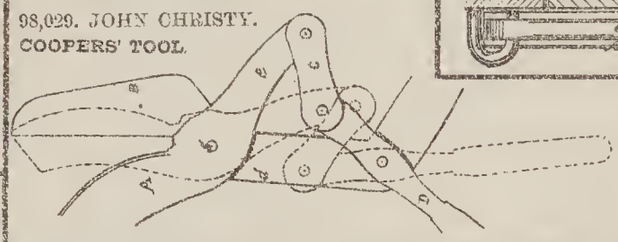


98,028, GEO. T. CHATTAWAY.
JOHN DICKINSON.
GRINDING-MACHINES.

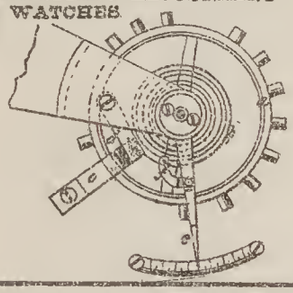


98,036, E. R. COLVER.
HASP-LOCK.

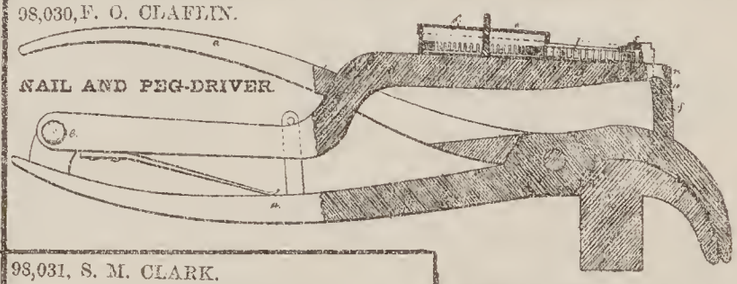
98,029. JOHN CHRISTY.
COOPERS' TOOL.



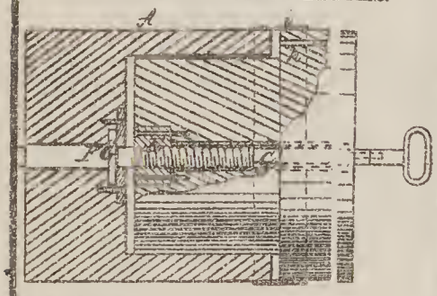
98,024, AUGUSTUS BROWN.
HAIR-SPRING ADJUSTMENT
FOR WATCHES.



98,030, F. O. CLAFLIN.
NAIL AND PEG-DRIVER.

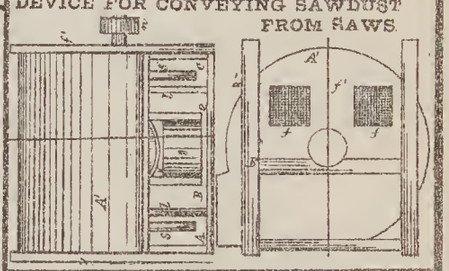


98,025, CHARLES F. BUTTERWORTH.
EXPANDING MUFF-BLOCKS.

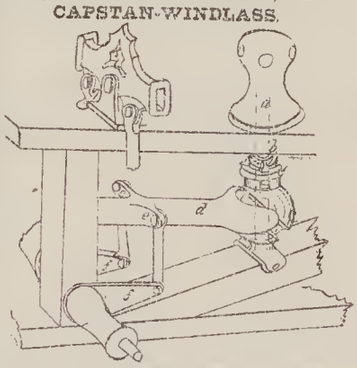


98,031, S. M. CLARK.
SELF-CANCELLING POSTAL
AND REVENUE-STAMP.

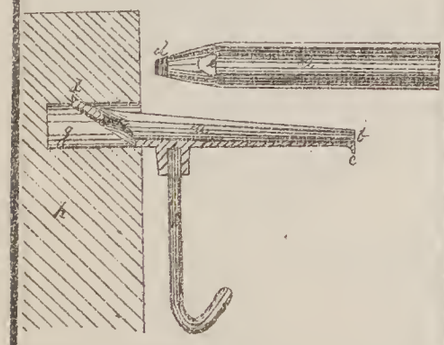
98,037, W. S. COLWELL.
DEVICE FOR CONVEYING SAWDUST
FROM SAWS.



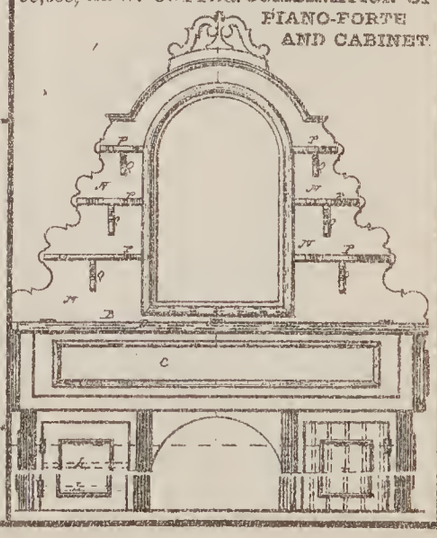
98,032, DAVID N. B. COFFIN, JR.
CAPSTAN-WINDLASS.



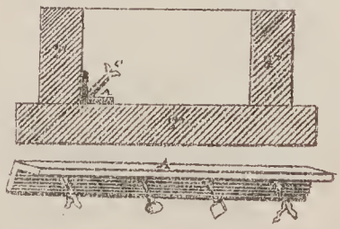
98,026, GEORGE L. CADY.
SAP-SPOUTS.



98,038, EDW. COTTER. COMBINATION OF
PIANO-FORTE
AND CABINET.



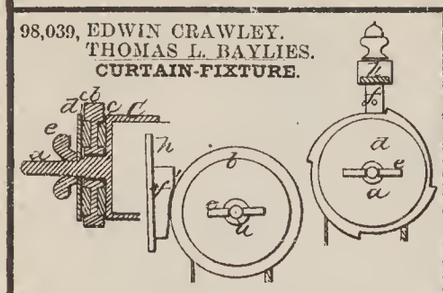
98,033, FRANCOIS COIGNET,
METAL-CLAD ARTIFICIAL STONE.



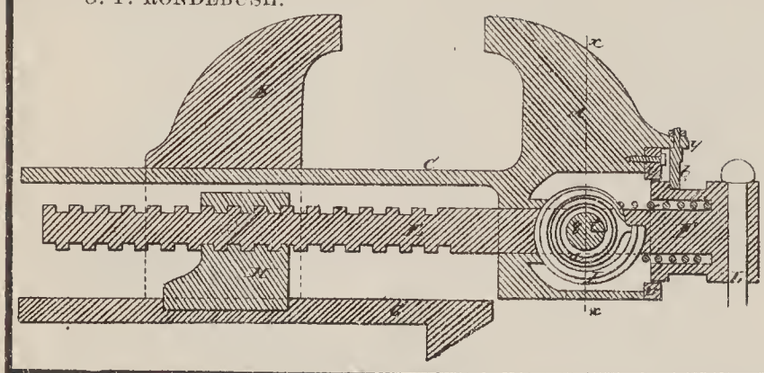
98,027, JAMES CAPEN.
HAY-LOADER.

98,034. FRANCOIS COIGNET. MAKING
ARTIFICIAL STONE AND CONCRETE.

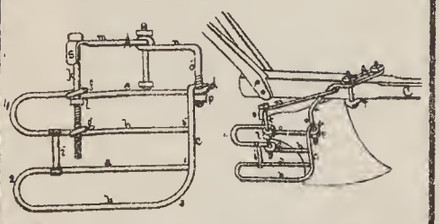
98,039, EDWIN CRAWLEY.
THOMAS L. BAYLIES.
CURTAIN-FIXTURE.



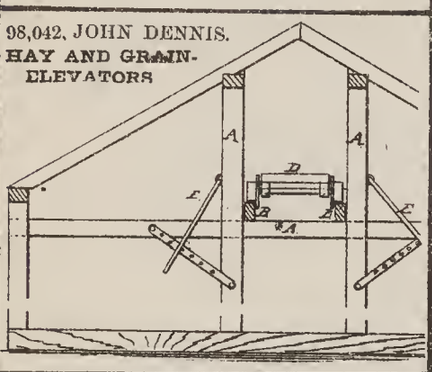
98,040, WILLIAM L. DEARTH.
G. P. RONDEBUSH.
VISE.



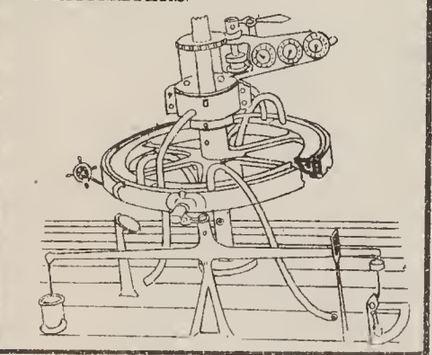
98,041.
CLOD-FENDERS.



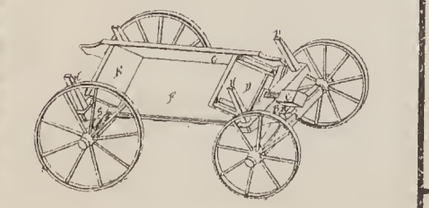
98,042, JOHN DENNIS.
HAY AND GRAIN-ELEVATORS.



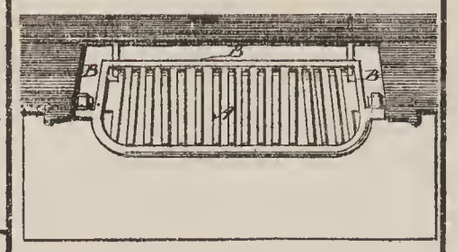
98,043, JAMES EMERSON.
DYNAMOMETERS.



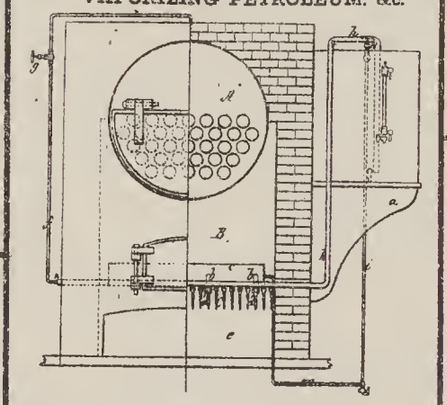
98,044, JOHN ESCH.
DUMPING-WAGONS.



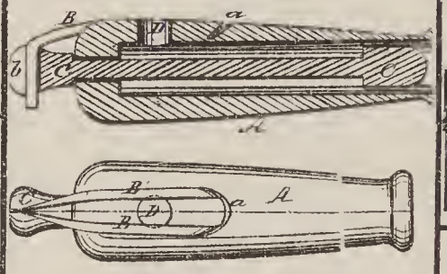
98,045, GEO. W. EVERHART.
GRATE.



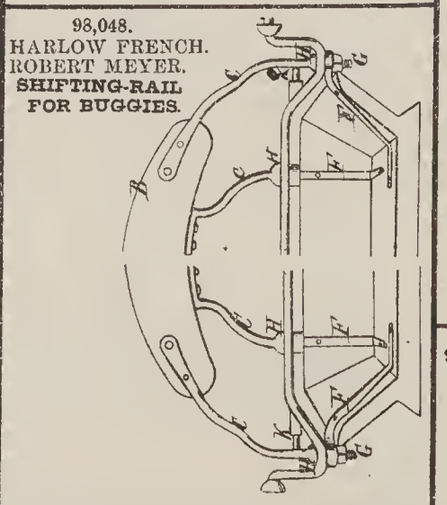
98,046, HENRY R. FOOTE.
VAPORIZING PETROLEUM. &c.



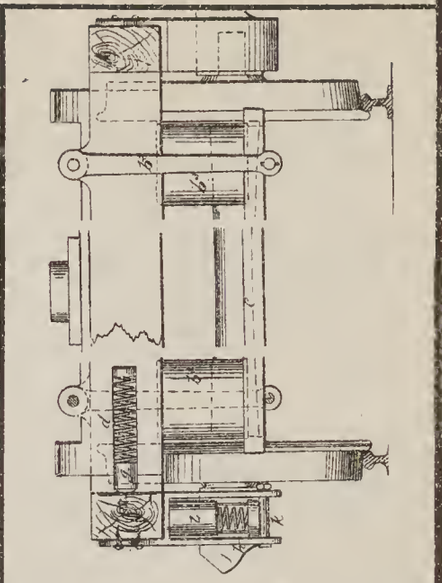
98,047, CHARLES T. FORD.
EDWARD TRASK.
TOY-GUN.



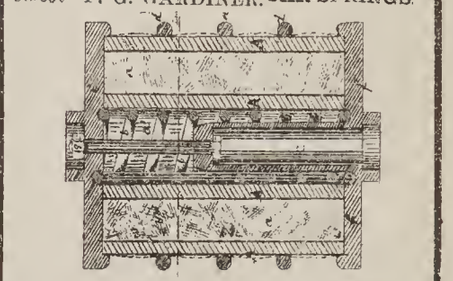
98,048.
HARLOW FRENCH.
ROBERT MEYER.
SHIFTING-RAIL FOR BUGGIES.



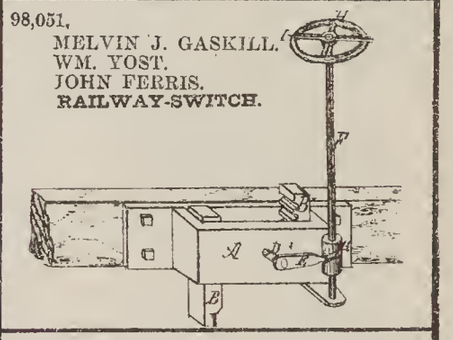
98,049, P. G. GARDINER.
RAILWAY-CAR TRUCKS.



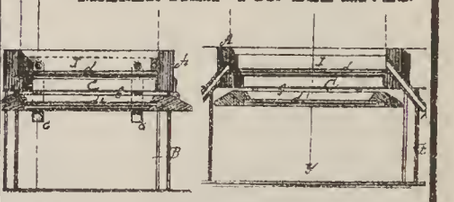
98,050 P. G. GARDINER. **CAR-SPRINGS.**



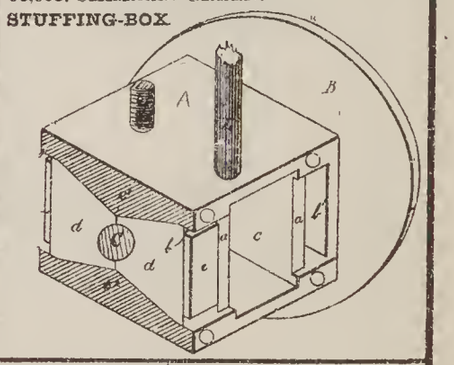
98,051,
MELVIN J. GASKILL.
WM. YOST.
JOHN FERRIS.
RAILWAY-SWITCH.



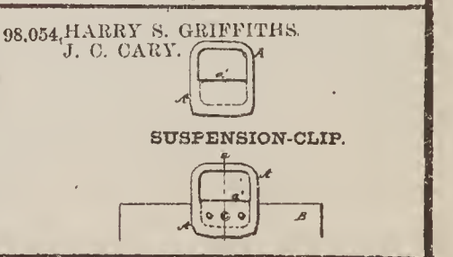
98,052, T. L. GRAY.
MILLER-TRAP FOR BEE-HIVES.



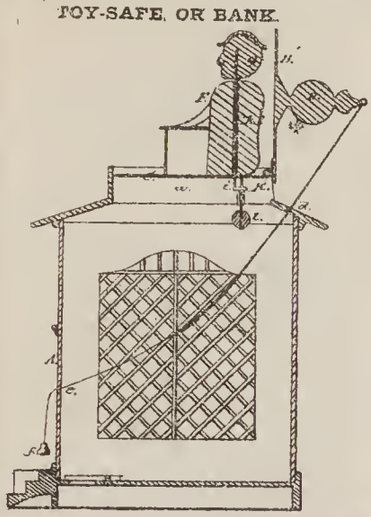
98,053, CHARLES GREEN.
STUFFING-BOX.



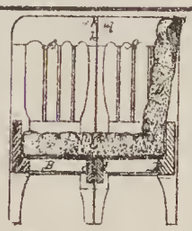
98,054, HARRY S. GRIFFITHS.
J. C. CARY.
SUSPENSION-CLIP.



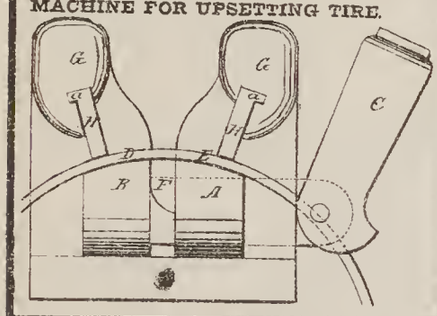
98,055, JOHN HALL.
TOY-SAFE, OR BANK.



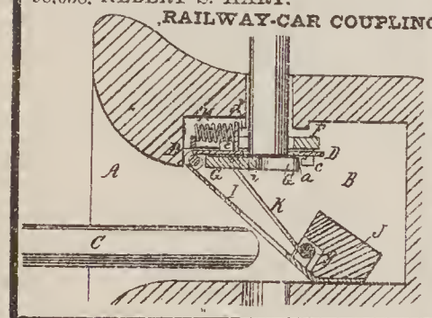
98,056,
AMOS R. HARPER.
CHARLES B. DAKE.
LOUNGE AND BEDSTEAD.



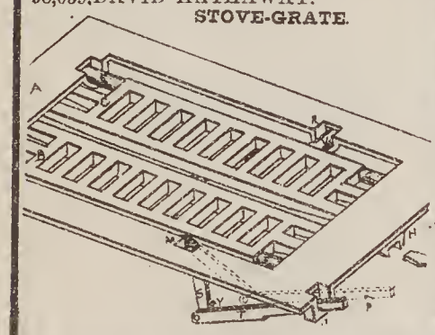
98,057, ALBERT S. HART.
MACHINE FOR UPSETTING TIRE.



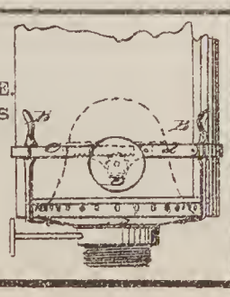
98,058. ALBERT S. HART.
RAILWAY-CAR COUPLING.



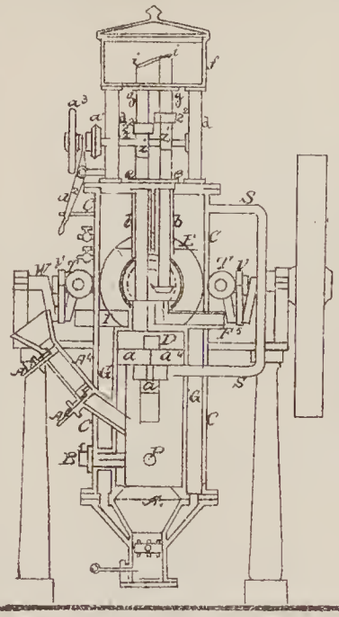
98,059, DAVID HATHAWAY.
STOVE-GRATE.



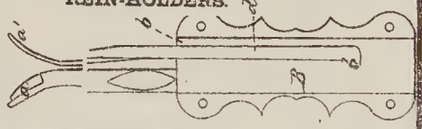
98,060,
JOHN F. HECHTLE.
HOLDING-DEVICES FOR LAMP-CHIMNEYS.



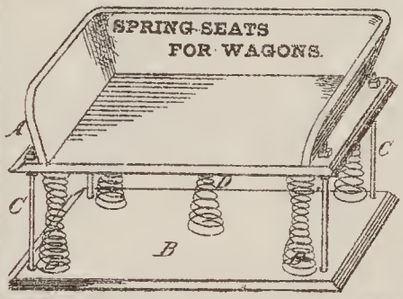
98,061, ALEXANDER HENDRY.
STEAM AND CALORIC-ENGINE.



98,062, DAVIS HURD.
REIN-HOLDERS.



98,063, ABEL L. HURTT
SPRING-SEATS FOR WAGONS.



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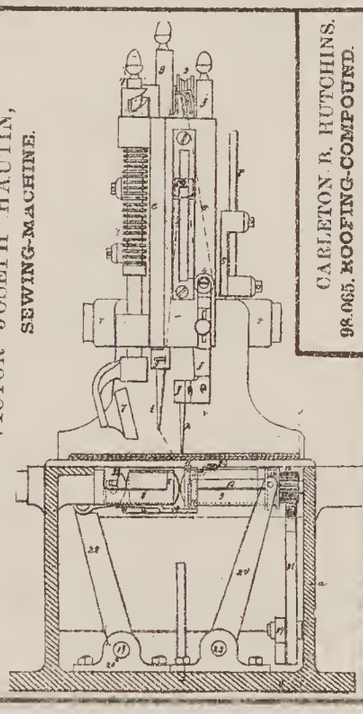
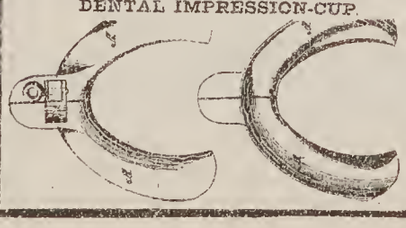
VICTOR JOSEPH HAUTIN,
SEWING-MACHINE.



CARLETON R. HUTCHINS.
98,065. ROOFING-COMPOUND.

98,066. ROBERT V. JENKS.
DENTAL IMPRESSION-CUP.



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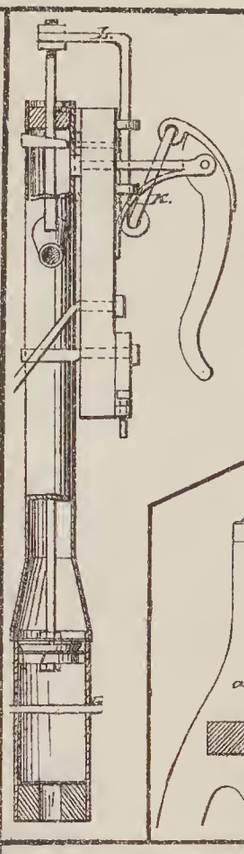
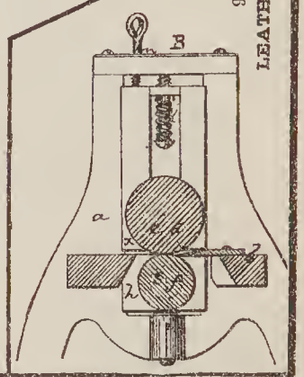
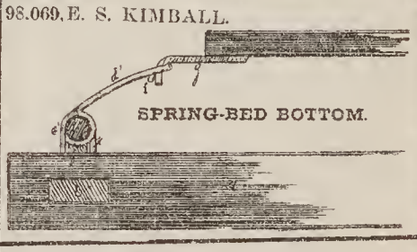
A. C. JUDSON
PUMPS.



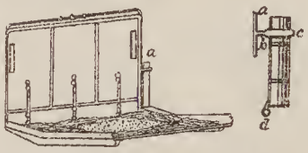
98,068, CHARLES KENISTON.
LEATHER-SPLITTING MACHINES.



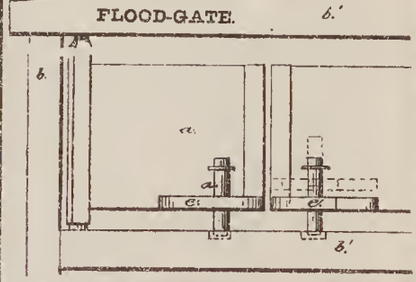
98,069. E. S. KIMBALL.
SPRING-BED BOTTOM.



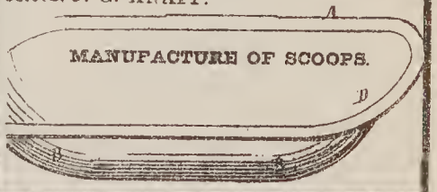
98,070, CHARLES P. KIMBALL.
WHIP-SOCKET.



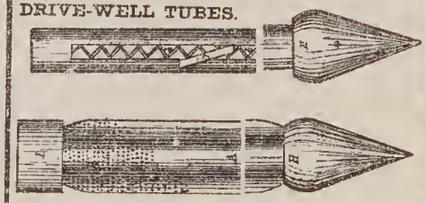
98,071, ABRAHAM L. KING.
FLOOD-GATE.



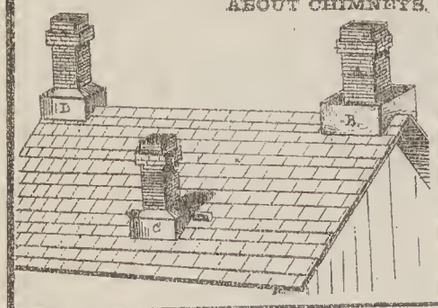
98,072. J. G. KNAPP.
MANUFACTURE OF SCOOPS.



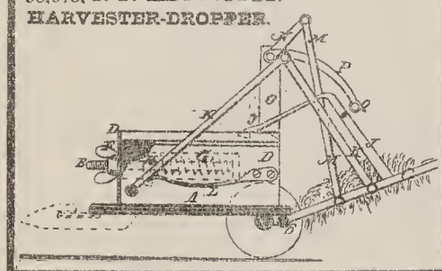
98,073, D. R. KNIGHT.
DRIVE-WELL TUBES.



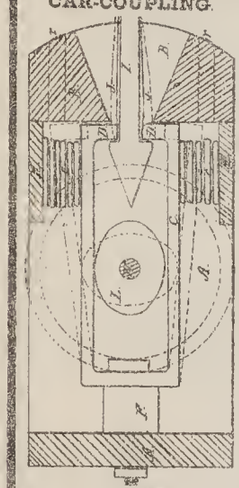
98,074, ABRAHAM LANG.
DEVICES FOR PREVENTING LEAKAGE ABOUT CHIMNEYS.



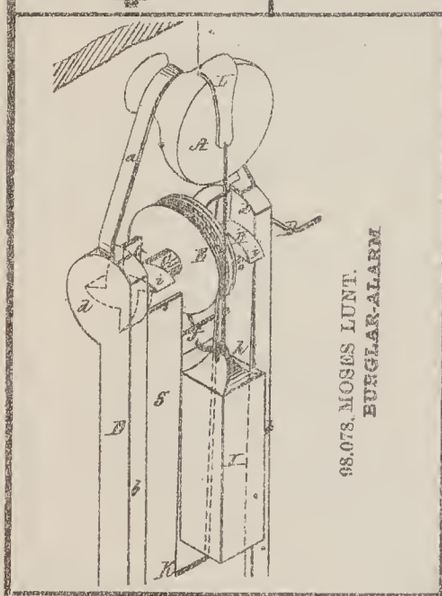
98,075, T. F. LIPPINCOTT.
HARVESTER-DROPPER.



98,076, JOSEPH LONG
CAR-COUPLING.

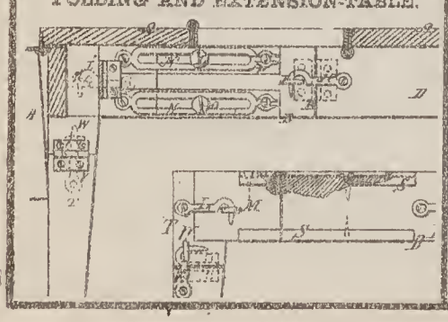


98,077, C. B. LOVELESS.
HEAD-REST.

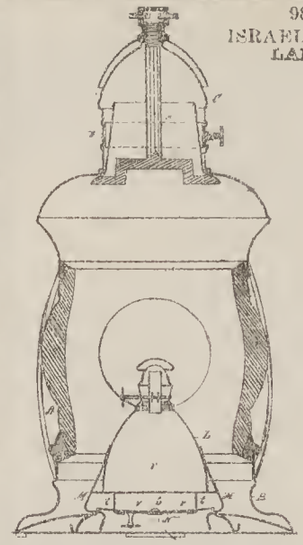


98,078, MOSES LUNT.
BURGLAR-ALARM.

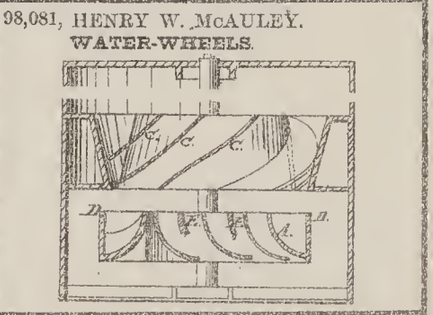
98,079, G. MAYER.
FOLDING AND EXTENSION-TABLE.



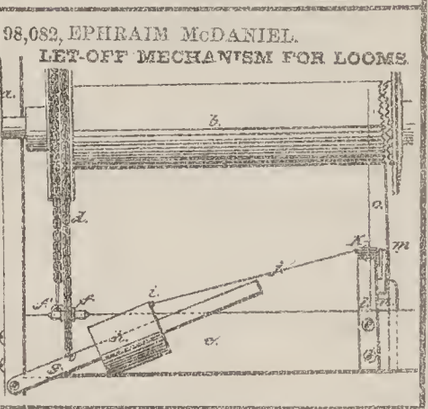
98,080,
ISRAEL C. MAYO
LANTERNS.



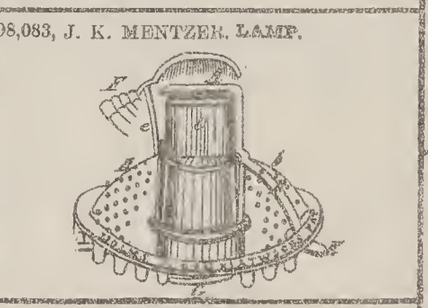
98,081, HENRY W. McAULEY.
WATER-WHEELS.



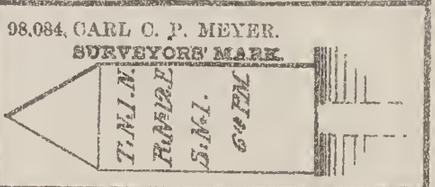
98,082, EPHRAIM McDANIEL.
LET-OFF MECHANISM FOR LOOMS.



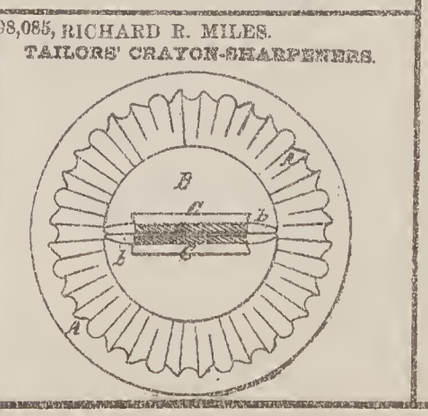
98,083, J. K. MENTZER. LAMP.



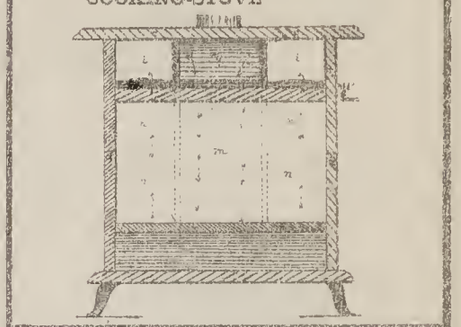
98,084, CARL C. P. MEYER.
SURVEYORS' MARK.



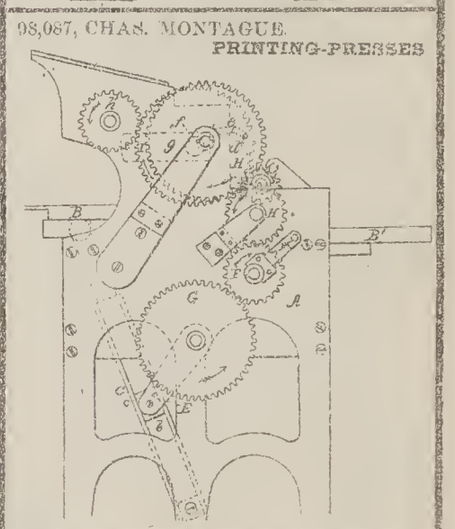
98,085, RICHARD R. MILES.
TAILORS' CRAYON-SHARPENERS.



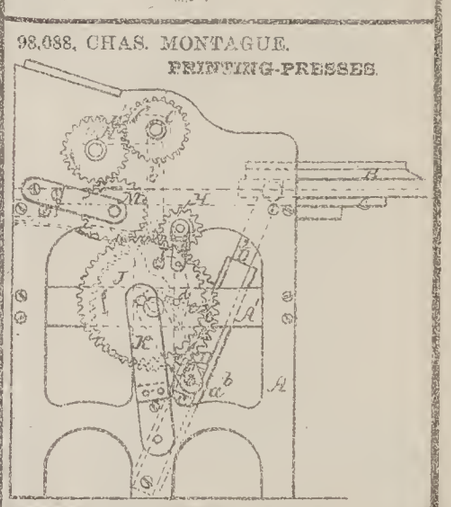
98,086, JAMES H. MITCHELL.
THOMAS S. MITCHELL.
COOKING-STOVE



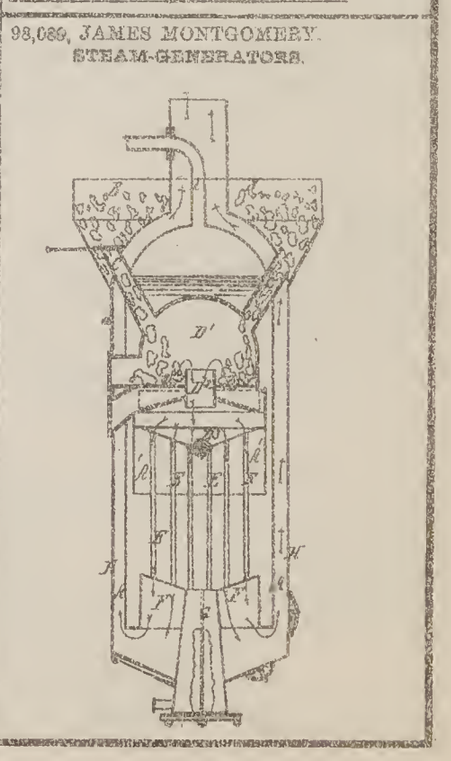
98,087, CHAS. MONTAGUE.
PRINTING-PRESSES



98,088, CHAS. MONTAGUE.
PRINTING-PRESSES.



98,089, JAMES MONTGOMERY.
STEAM-GENERATORS.



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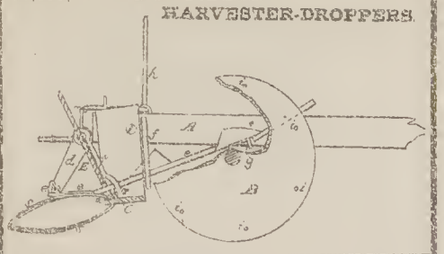
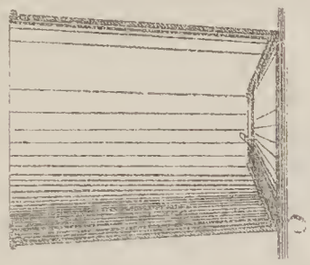
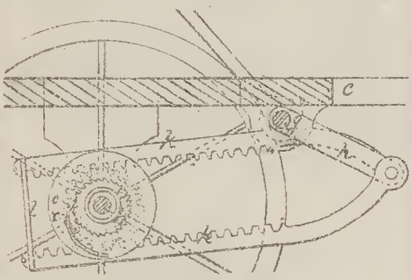
HARVESTER-DROPPERS.



98,091, R. L. MYERS, COTTON-BASKET.

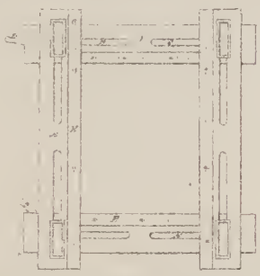


98,092, ROBERT NEALE, VELOCIPEDES.

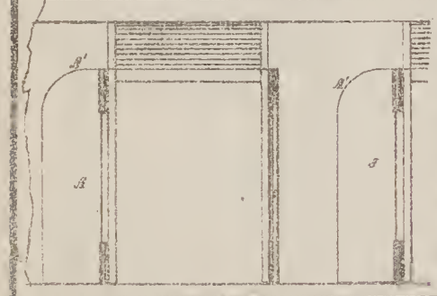


98,093, THOMAS NEWELL.
STOVE-PIPE THIMBLE.

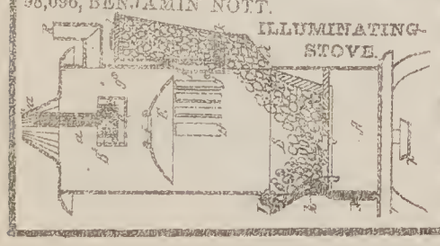
98,094, JAMES NICKLIN.
CURTAIN AND SHAWL-STRETCHER.



98,095, EDWIN NORTON.
RAILROAD-CAR VENTILATOR.



98,096, BENJAMIN NOTT.
ILLUMINATING-STOVE.



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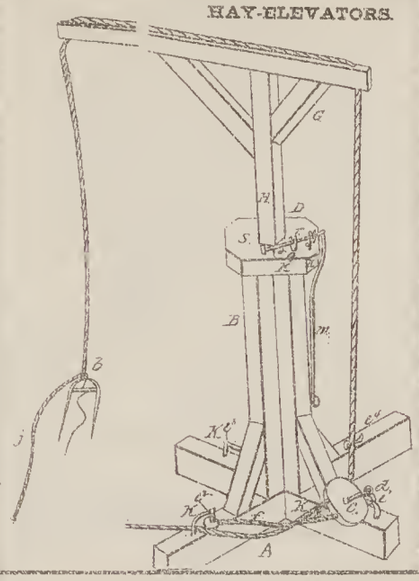
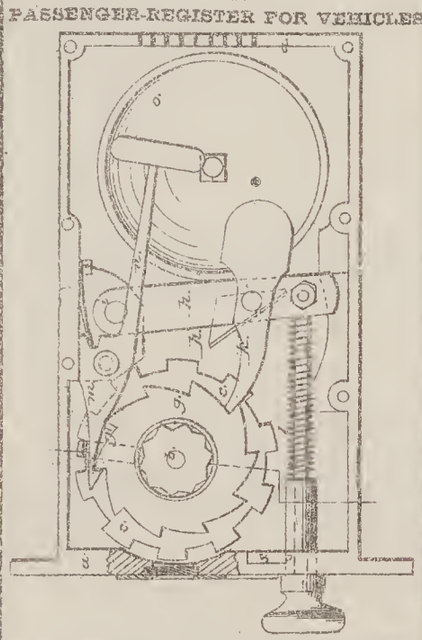
HAY-ELEVATORS.

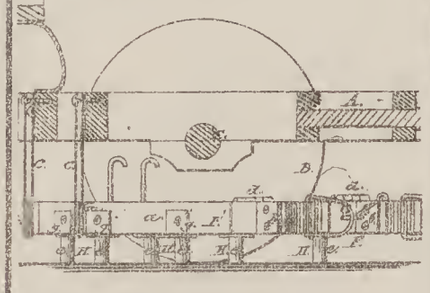


98,098 THOMAS OLLIS.
PASSENGER-REGISTER FOR VEHICLES.

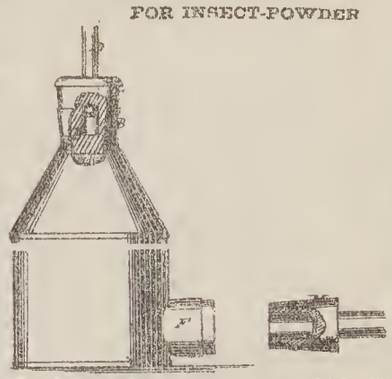


98,099, JOSHUA T. OWEN.
RAILWAY-CAR WHEELS.

98,100, GEORGE PADDINGTON.
HARROWS.

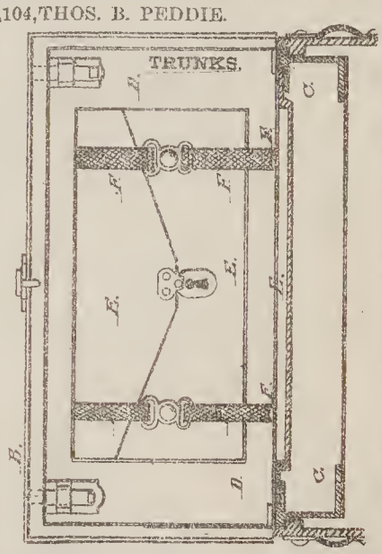


98,101, FRANCIS L. PALMER, SR.
PACKING AND ATOMIZING-CAN FOR INSECT-POWDER

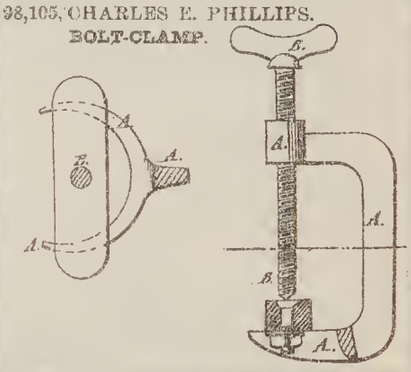


98,103, SUSPENDED.

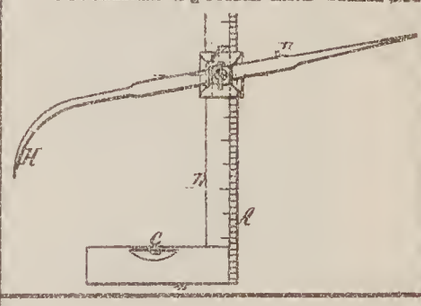
98,104, THOS. B. PEDDIE.
TRUNKS.



98,105, CHARLES E. PHILLIPS.
BOLT-CLAMP.



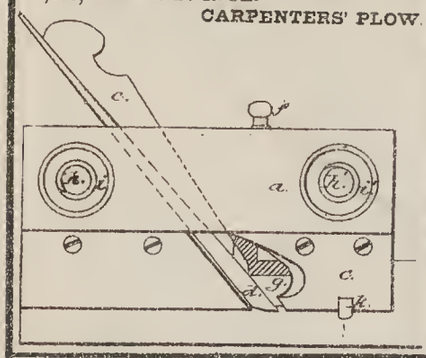
98,106, JOSIAH POTTS.
COMBINED SQUARE AND CALIPER.



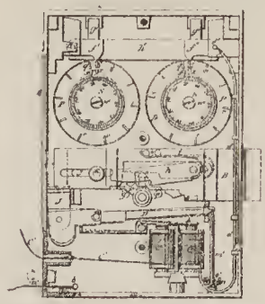
98,107, AUG. A. RANDALL.
METAL ALLOY FOR HARNESS-TRIMMINGS, &c.

98,102, WILLIAM PATTBERGER.
OYSTER-KNIFE AND ICE-PICK

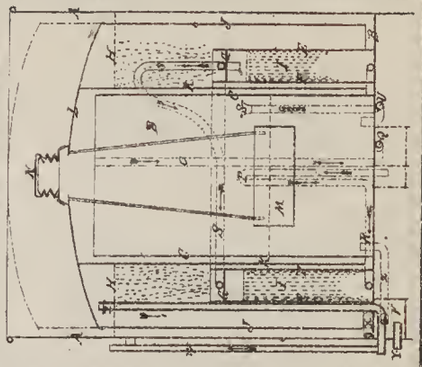
98,108, ROYAL B. RICE.
CARPENTERS' PLOW.



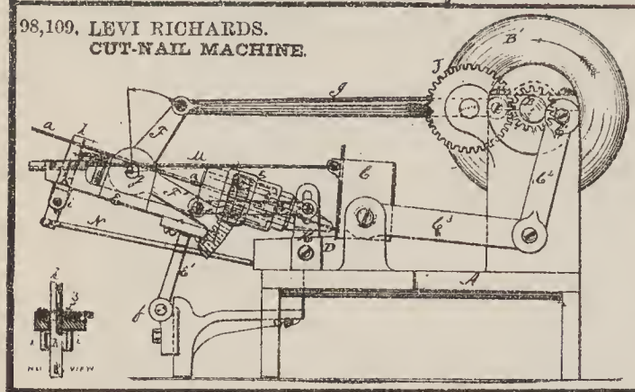
98,114, JOHN C. SMITH.
ELECTRO-MAGNETIC LOCKS.



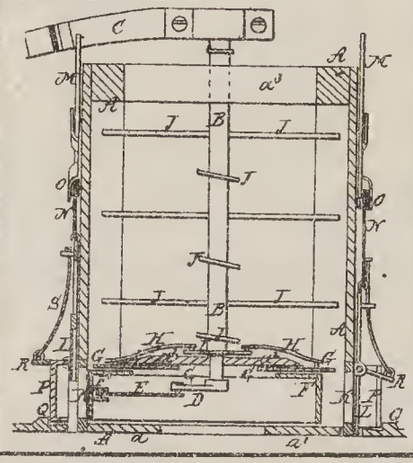
98,118, AMOS STEVENS.
GAS-GENERATOR AND CARBURETTER.



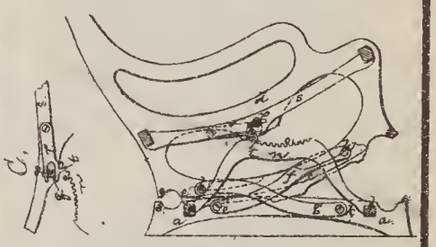
98,109, LEVI RICHARDS.
CUT-NAIL MACHINE.



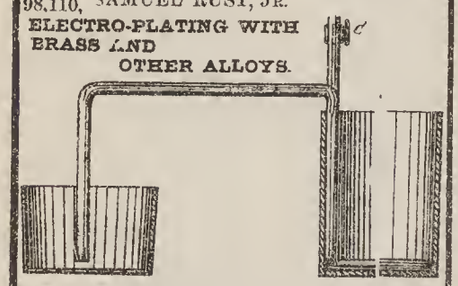
98,115,
THOMAS SMURFIT.
BRICK-MACHINES.



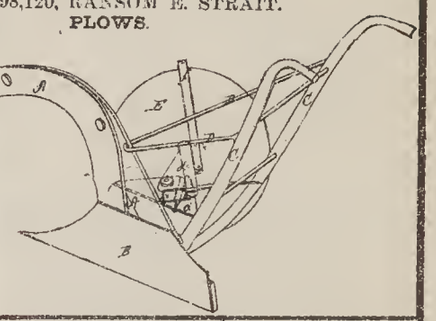
98,119, ALEXR. W. STEWART.
ROCKING AND EASY-CHAIR.



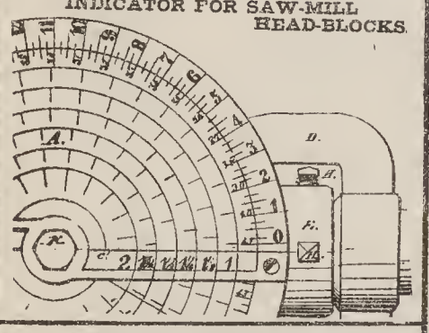
98,110, SAMUEL RUST, JR.
ELECTRO-PLATING WITH BRASS AND OTHER ALLOYS.



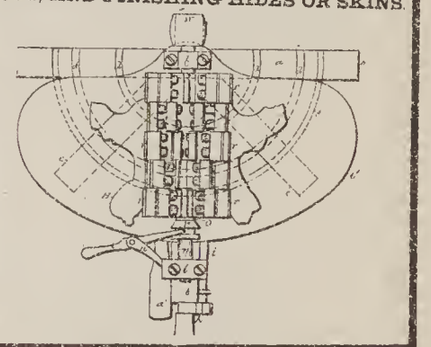
98,120, RANSOM E. STRAIT.
PLOWS.



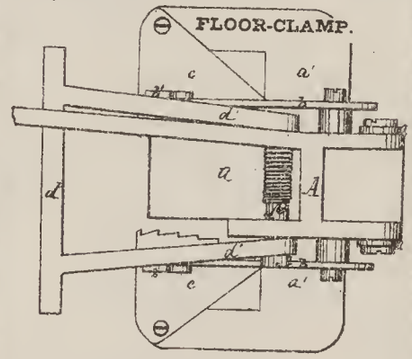
98,111, GEO. SELDEN.
INDICATOR FOR SAW-MILL HEAD-BLOCKS.



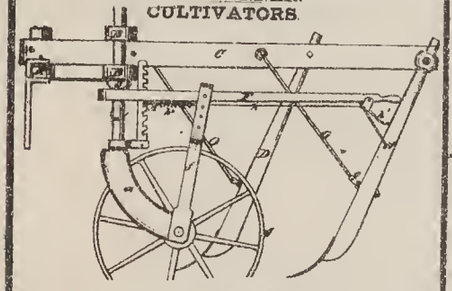
98,121. JOHN TAGGART.
MACHINE FOR SCOURING, SETTING OUT, AND FINISHING HIDES OR SKINS.



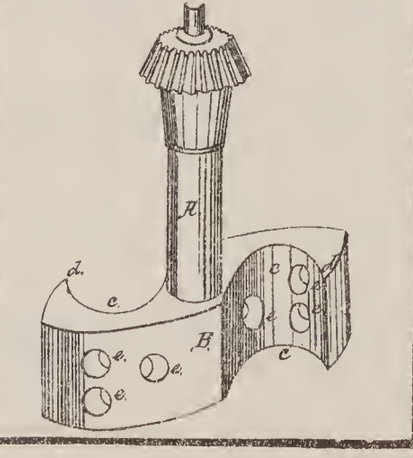
98,116, JOSEPH B. SPENCER.
FLOOR-CLAMP.



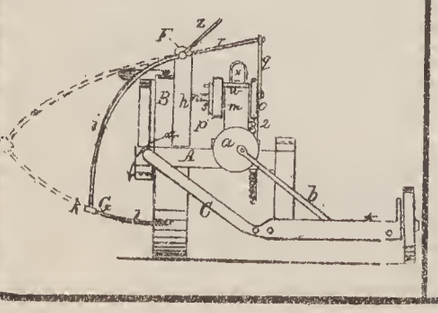
98,112, JAMES B. SKINNER.
CULTIVATORS.

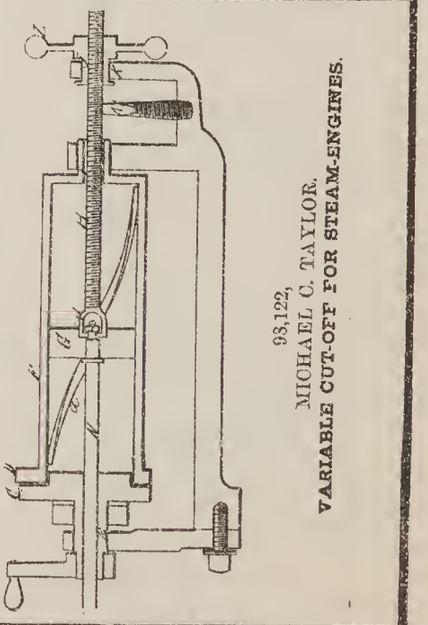


98,117, AURELIUS SPERRY.
CHURN-DASHER.



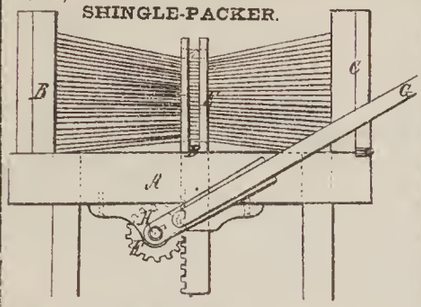
98,113, A. L. SMITH.
HARVESTERS.



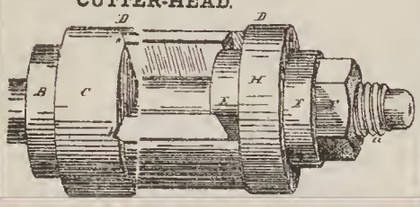


98,122,
MICHAEL C. TAYLOR.
VARIABLE CUT-OFF FOR STEAM-ENGINES.

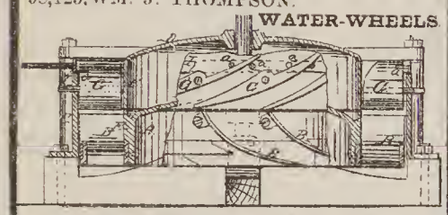
98,123, ROBERT B. TAYLOR.
SHINGLE-PACKER.



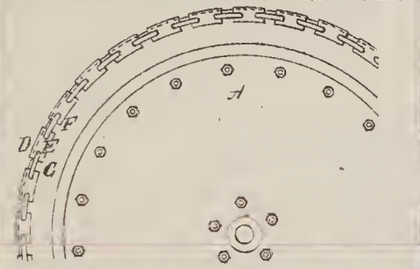
98,124, HIRAM THOMPSON.
CUTTER-HEAD.



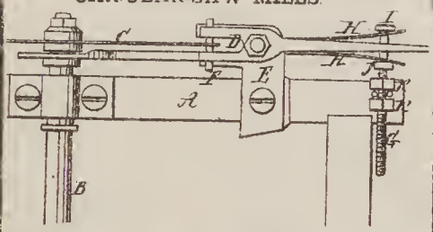
98,125, WM. J. THOMPSON.
WATER-WHEELS.



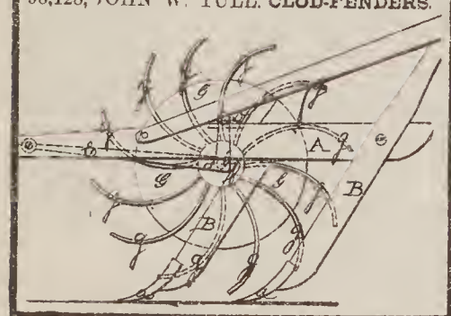
98,126 R. W. THOMSON.
WHEEL FOR STEAM-CARRIAGES.



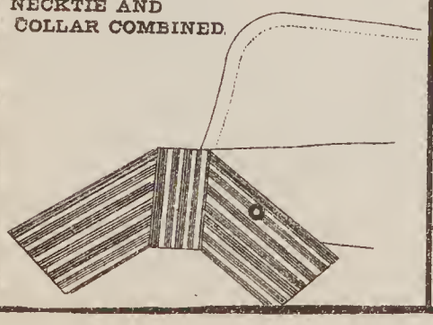
98,127, JOHN TRUNICK.
CIRCULAR-SAW MILLS.



98,128, JOHN W. TULL. CLOD-FENDERS.

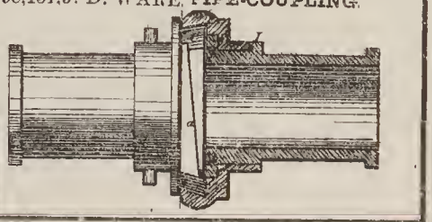


98,129, JAMES VARLEY.
NECKTIE AND
COLLAR COMBINED.

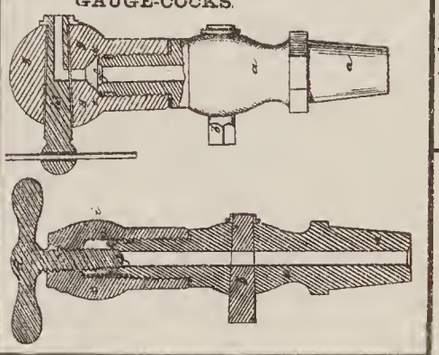


98,130, W. M. WALTON.
EYE FOR RAILWAY-CAR BELL-ROPES.

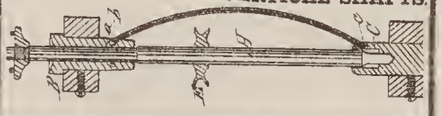
98,131, J. D. WARE. PIPE-COUPLING.



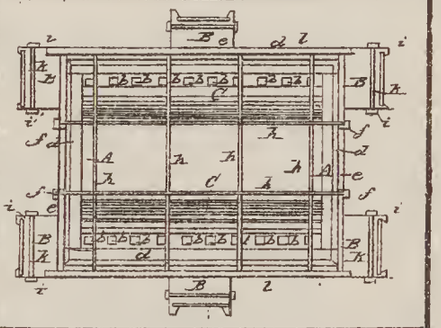
98,132, GEORGE L. WATSON.
GAUGE-COCKS.



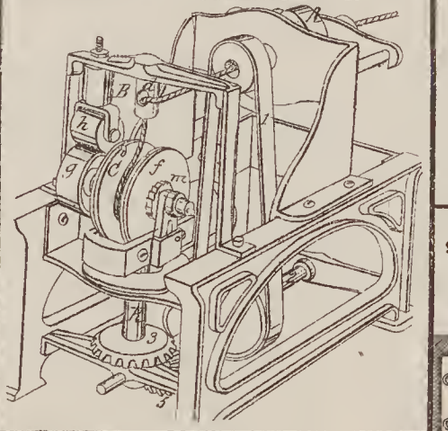
98,133, JOSEPH W. WATTLES.
LUBRICATORS FOR THE BOLSTERS OF
VERTICAL SHAFTS.



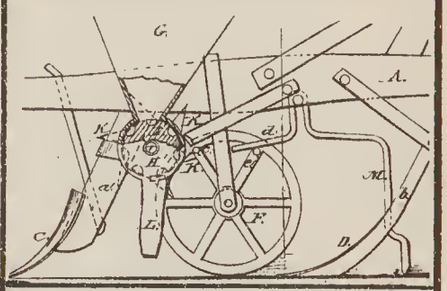
98,134, E. V. WINGARD. BRICK-KILN, &c.



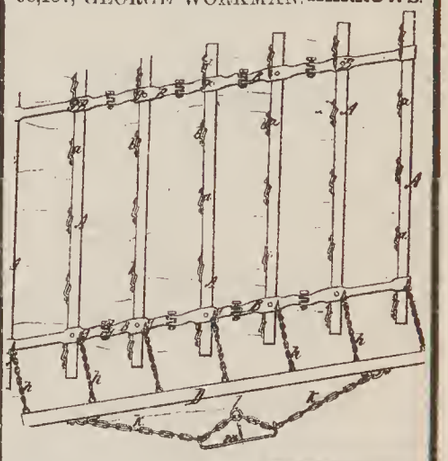
98,135. PHILIP WISDOM. MACHINE FOR
SPINNING AND CURLING HAIR



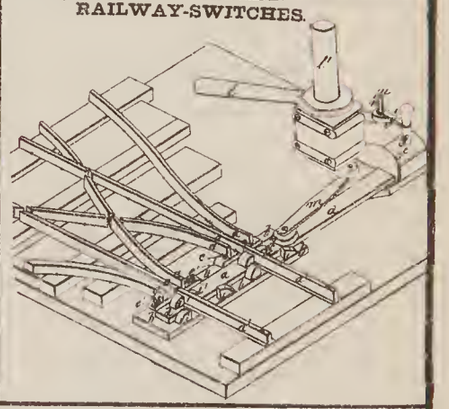
98,136, DAVID C. WOODS.
SEED-PLANTERS.



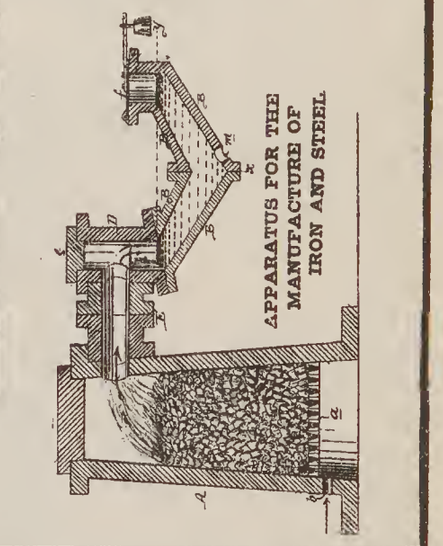
98,137, GEORGE WORKMAN. HARROWS.



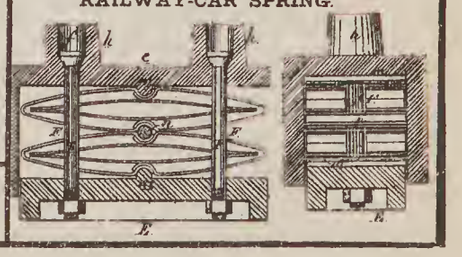
98,138, EDMUND YARDLEY.
RAILWAY-SWITCHES.



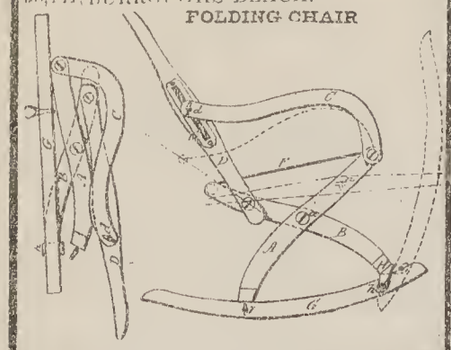
98,139, CHARLES ADAMS.



WILLIAM BARRY,
98,140, GEORGE FRANKLIN.
RAILWAY-CAR SPRING.

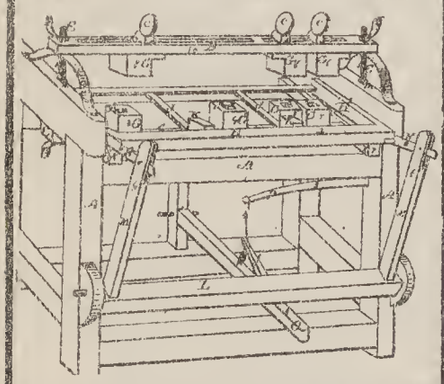


98,141, BURROUGHS BEACH.
FOLDING-CHAIR

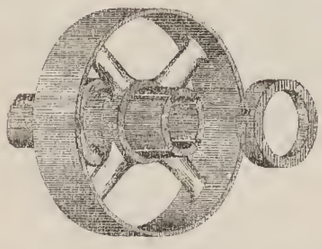


98,142, ANN K. BENSON.
HAIR-RESTORATIVE.

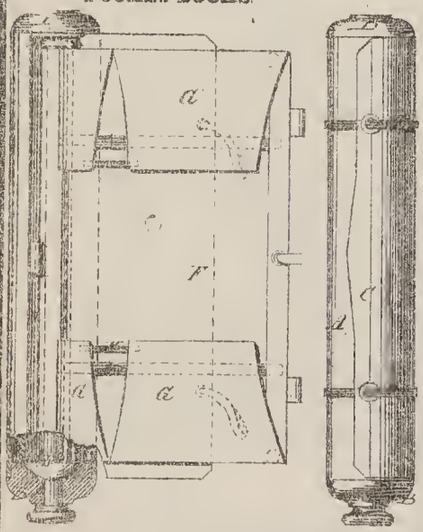
98,143, ALPHEUS BIGONY.
MACHINE FOR LAYING OUT SASH.



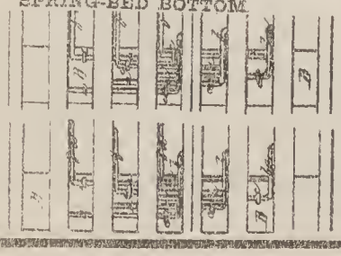
98,144, J. H. BUCKMAN. DEVICE FOR SECURING PULLEYS TO SHAFTS.



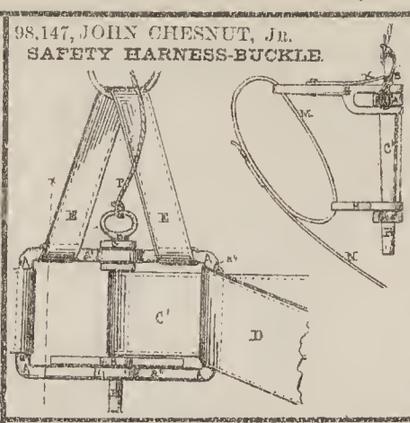
98,145, ALPHONZO BUTTON.
POCKET-BOOKS.



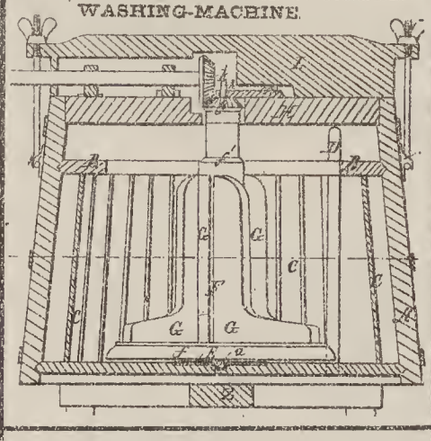
98,146, JAMES P. CHAMBERLIN.
SPRING-BED BOTTOM.



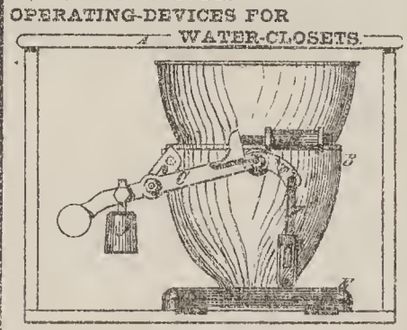
98,147, JOHN CHESNUT, JR.
SAFETY HARNESS-BUCKLE.



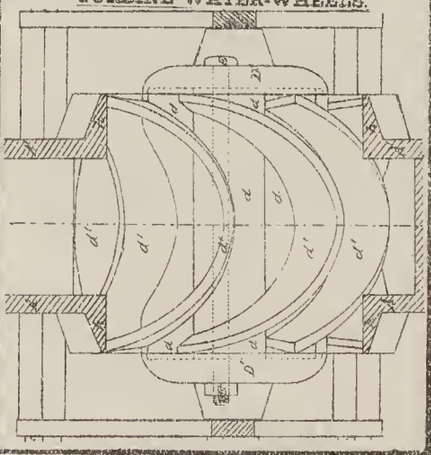
98,148, MARTIN VOGEL. A. P. CINDEL.
WASHING-MACHINE.



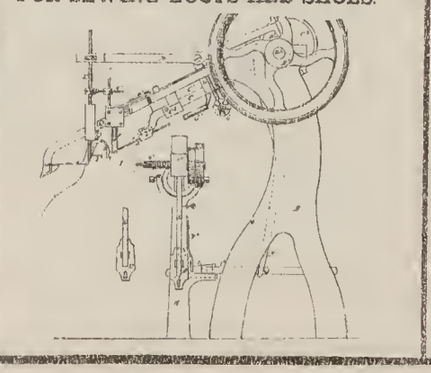
98,149, BENJ. R. COLE.
OPERATING-DEVICES FOR WATER-CLOSETS.



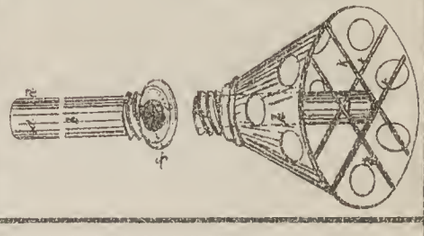
98,150, E. F. COOPER.
TURBINE WATER-WHEELS.



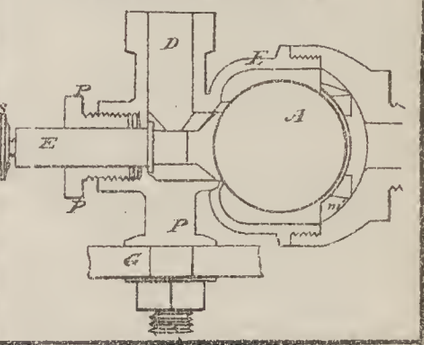
98,151, C. O. CROSBY, SEWING-MACHINE FOR SEWING BOOTS AND SHOES.



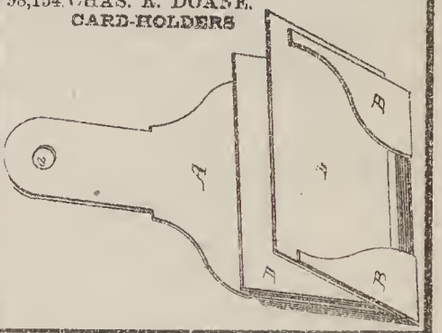
98,152, THEOPHILUS CRUTCHER.
CHURN-DASHER.



98,153, JACOB N. DECK.
WATER-CLOSET VALVES.

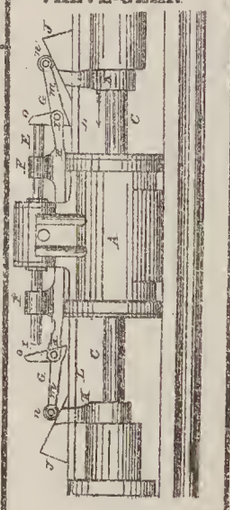


98,154, CHAS. R. DOANE.
CARD-HOLDERS.

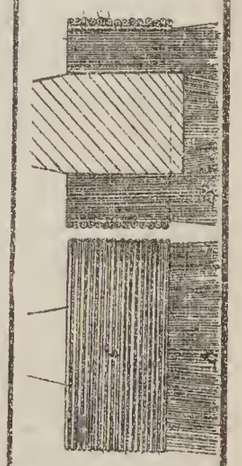


98,155, I. O. DONNER.
TREATING WINES, BEER, AND LIQUORS.

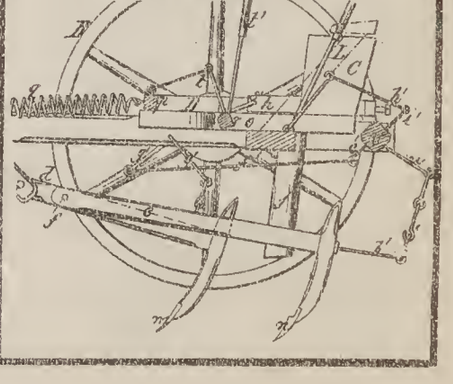
98,156,
THOMAS E. EVANS.
WM. R. THOMAS.
JOSHUA HUNT.
VALVE-GEAR.



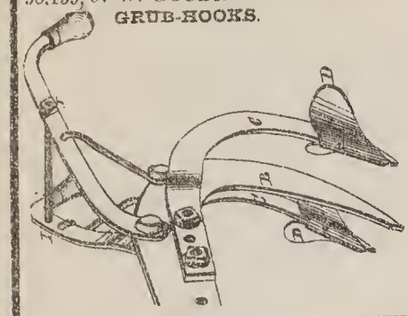
98,158.
F. P. FURNALD,
R. W. CHAMPION
I. N. DAVIES.
PAINT-BRUSH.



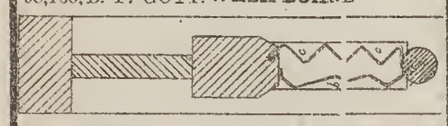
98,157, D. FITZPATRICK.
JOHN KNULL.
CORN-PLANTERS.



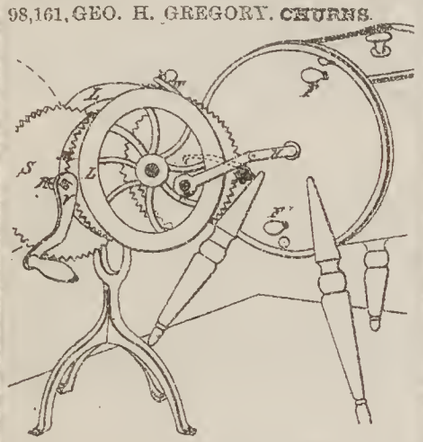
98,159, J. W. GOODALL.
GRUB-HOOKS.



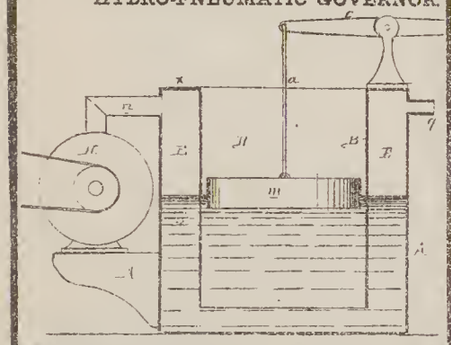
98,160, B. F. GOTT. WASH-BOARD



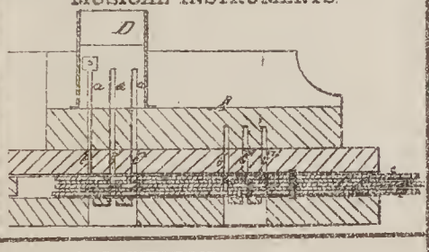
98,161, GEO. H. GREGORY. CHURNS.



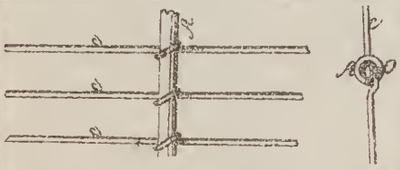
98,162, ANDREW HARRIS.
HYDRO-PNEUMATIC GOVERNOR.



98,163, CHARLES FREDERIC HILL.
MUSICAL INSTRUMENTS.

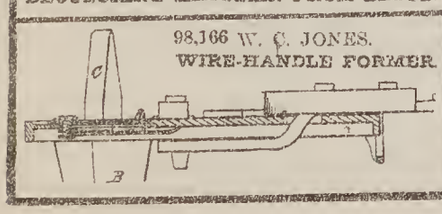


98,164, J. S. HUSTON.
SECURING THE LASHES IN FLY-NETS.

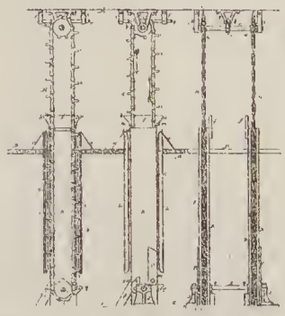


98,165, P. JACQUES.
PROCESS OF PURIFYING AND DECOLORING ALBUMEN FROM BLOOD.

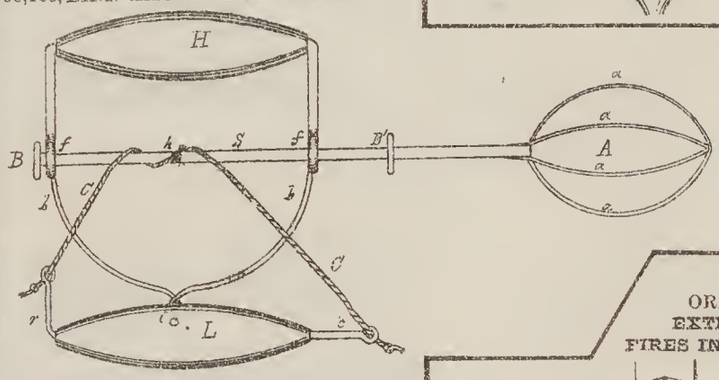
98,166 W. C. JONES.
WIRE-HANDLE FORMER.



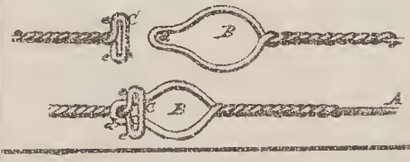
98,167, CHENEY KILBURN.
ARTEMAS KILBURN.
MECHANISM FOR RAISING AND LOWERING BOARDS.



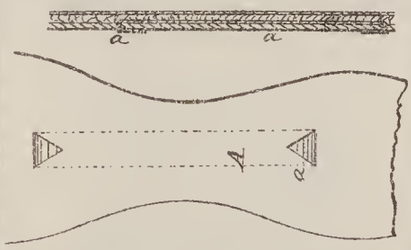
98,168, LINN LAURIE. EGG-BEATER.



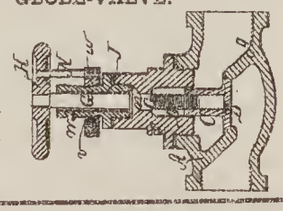
98,169, EDWIN S. LENOX
WIRE BALE-FASTENING.



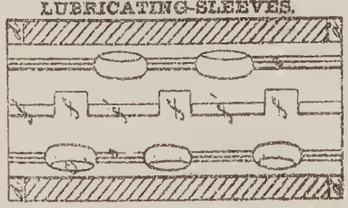
98,170, C. A. LEONARD.
INSOLES FOR BOOTS AND SHOES.



98,171, HIPPOLITE LEVASSEUR.
GLOBE-VALVE.

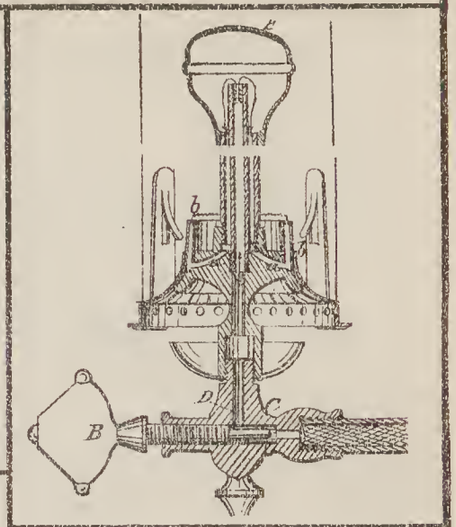


98,172, G. A. LLOYD.
LUBRICATING-SLEEVES.

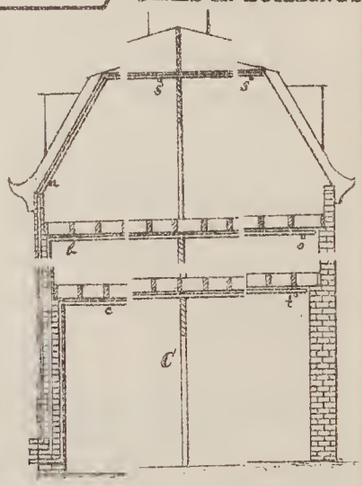


98,173, G. WASHINGTON LORD.
COMPOSITION FOR PREVENTING INCRUSTATION IN STEAM-BOILERS.

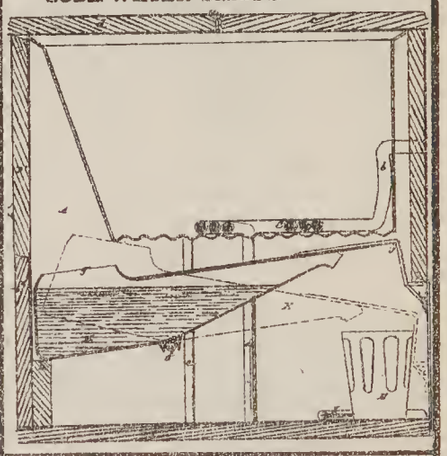
98,174, CHARLES B. LOVELESS.
GAS-GENERATOR AND BURNER.



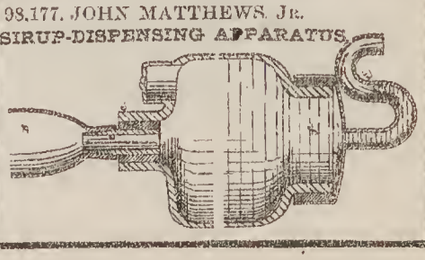
98,175, ORAZIO LUGO.
EXTINGUISHING FIRES IN BUILDINGS.



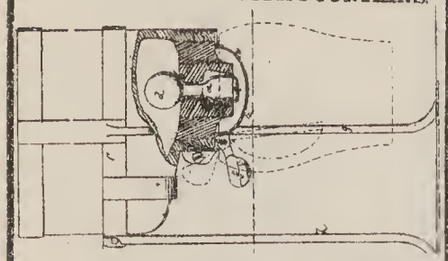
98,176, JOHN MATTHEWS, JR.
APPARATUS FOR DISPENSING SODA-WATER SIRUPS.



98,177, JOHN MATTHEWS, JR.
SIRUP-DISPENSING APPARATUS.

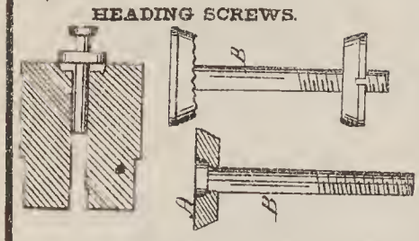


98,178, JOHN MATTHEWS, Jr.
SIRUP-RESERVOIRS FOR SODA-FOUNTAINS.

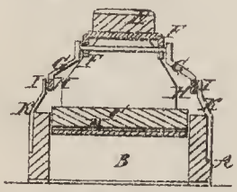


98,179, CHARLES P. McGIMSEY. **SOAP.**

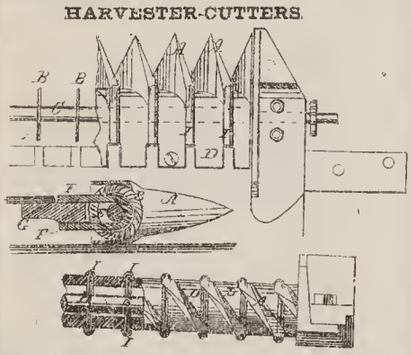
98,180, DANIEL T. MUNGER.
HEADING SCREWS.



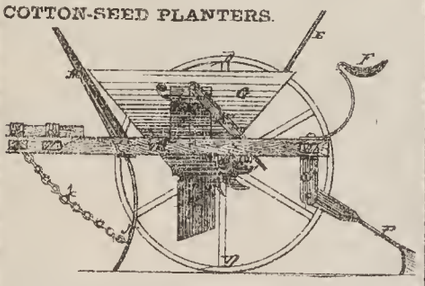
98,181, MATTHEW NEWLOVE.
BRICK-MOULDS.



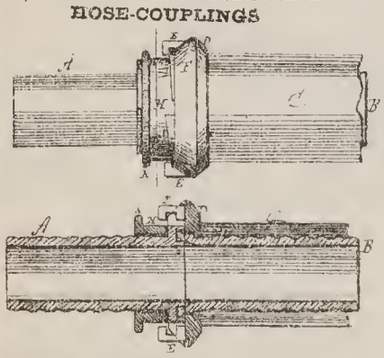
98,182, THEODORE NEYS.
HARVESTER-CUTTERS.



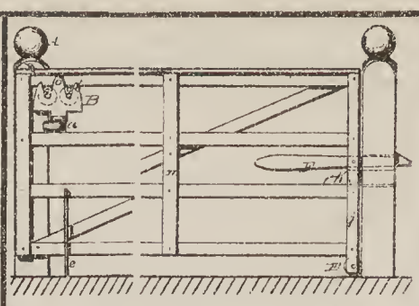
98,183, A. R. NIXON.
COTTON-SEED PLANTERS.



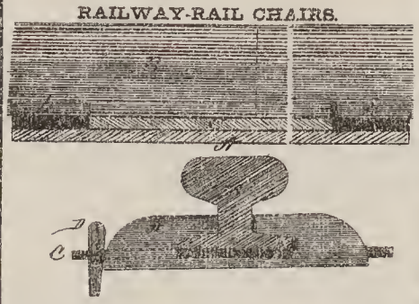
98,184, WILLIAM J. OSBOURNE.
HOSE-COUPLINGS



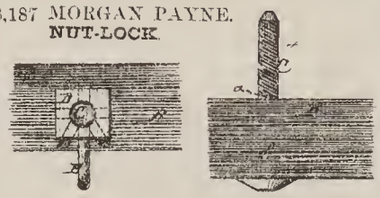
98,185, CHRISTOPHER OSTRANDER
FARM-GATES.



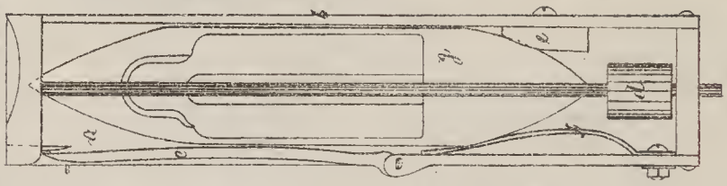
98,186, S. N. PARK.
RAILWAY-RAIL CHAIRS.



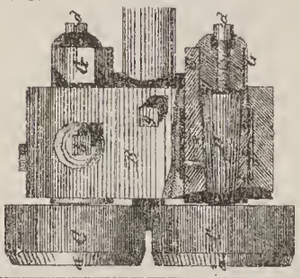
98,187 MORGAN PAYNE.
NUT-LOCK.



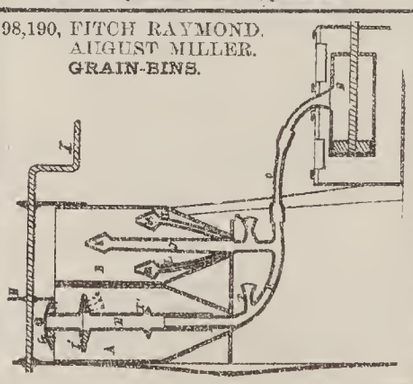
98,188, DAVID PICKMAN.
SHUTTLE-CHECK FOR LOOMS.



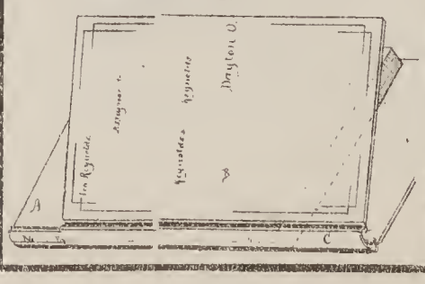
98,189. C. PURDY. **SAW-GUIDES.**



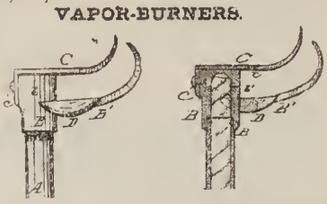
98,190, FITCH RAYMOND.
AUGUST MILLER.
GRAIN-BINS.



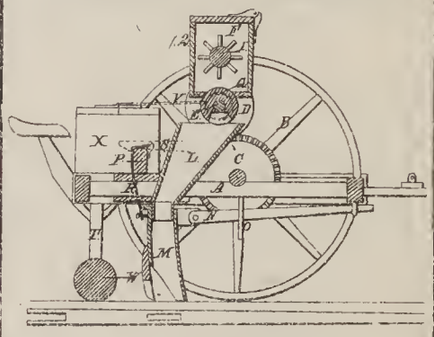
98,191. IRA REYNOLDS.
BOOKBINDING.



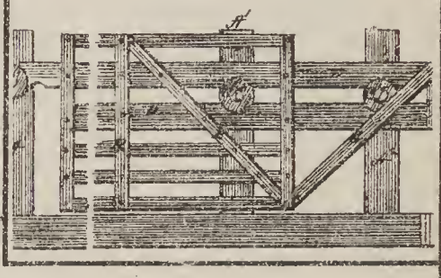
98,192, WILLIAM H. RUDOLPH.
VAPOR-BURNERS.



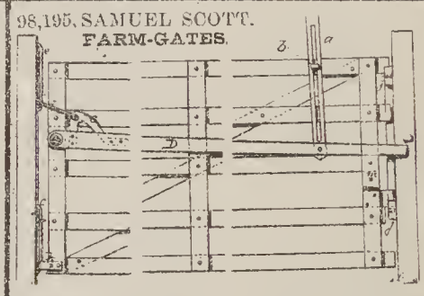
98,193. C. B. RUTH. **CORN-PLANTERS.**



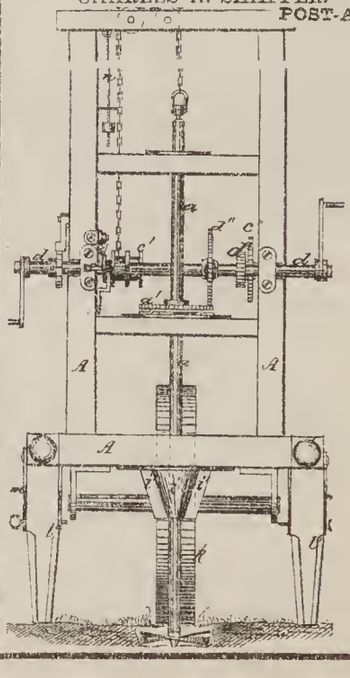
98,194. CHARLES SAXTON. **GATES.**



98,195, SAMUEL SCOTT.
FARM-GATES.



98,196, GEORGE SEEGER.
CHARLES H. SHAFFER.
POST-AUGER.



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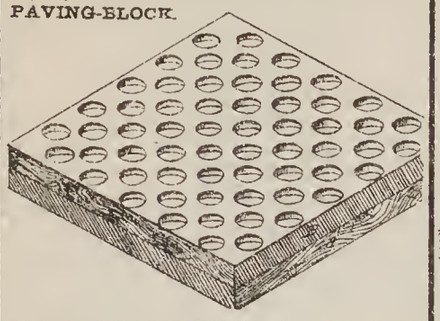
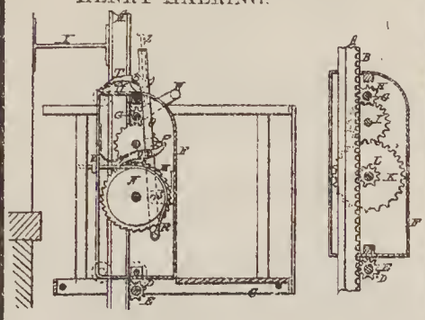
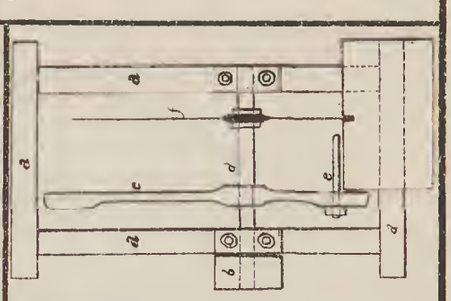
PAVING-BLOCK.

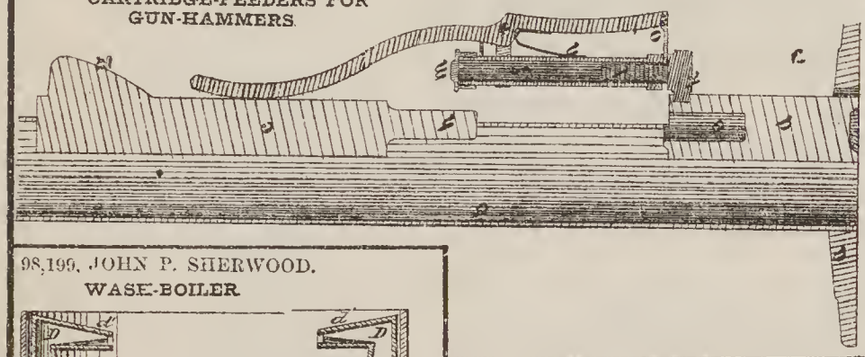


98,203, FRANCIS STEIN, HENRY HAERING. **ELEVATORS.**

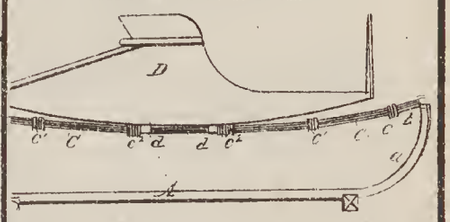




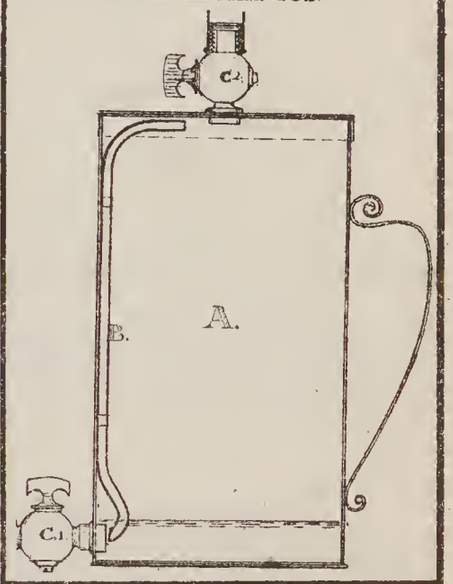
98,198, THOMAS SHAW.
CARTRIDGE-FEEDERS FOR GUN-HAMMERS.



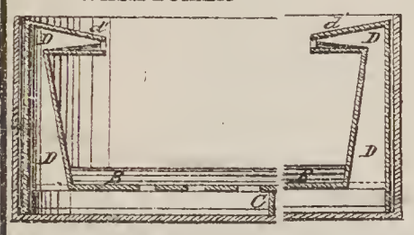
98,207, GEORGE W. TEW.
CARRIAGE-SPRINGS.



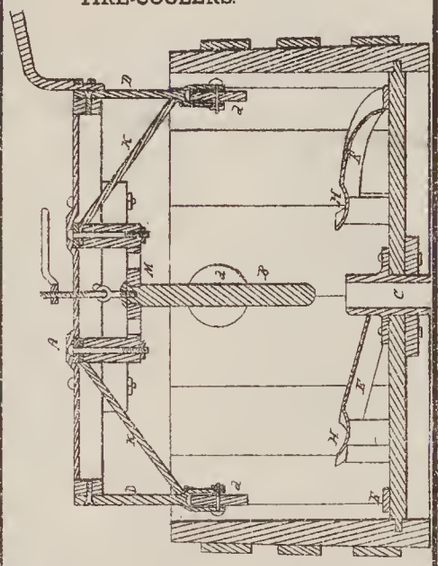
98,208, LOVIAS D. TOWSLEY.
SELF-VENTILATING SAFETY-CAN FOR FILLING AND DISCHARGING HYDROCARBON-APPARATUS.



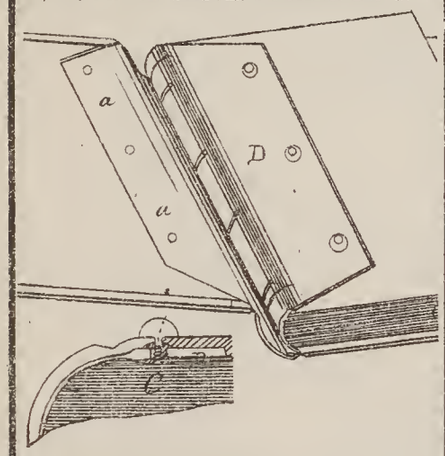
98,199, JOHN P. SHERWOOD.
WASH-BOILER.



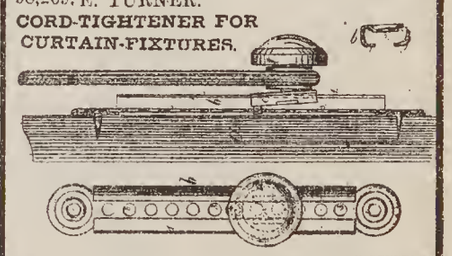
98,204, EDWARD STODTMEISTER.
TIRE-COOLERS.



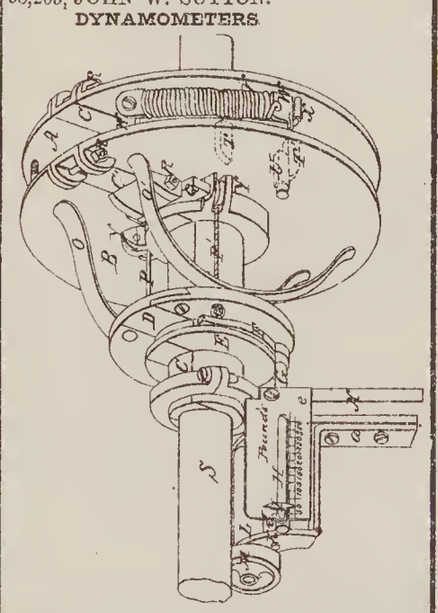
98,200, DAVID SHIVE. **BOOKBINDING.**



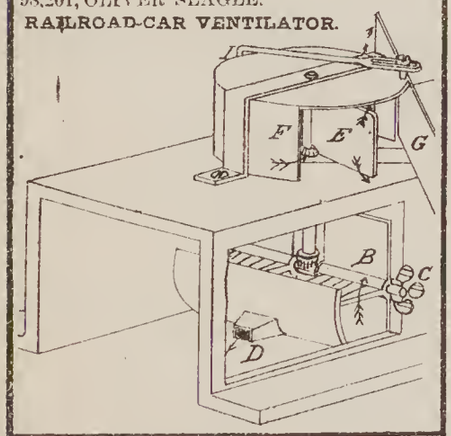
98,209, E. TURNER.
CORD-TIGHTENER FOR CURTAIN-FIXTURES.



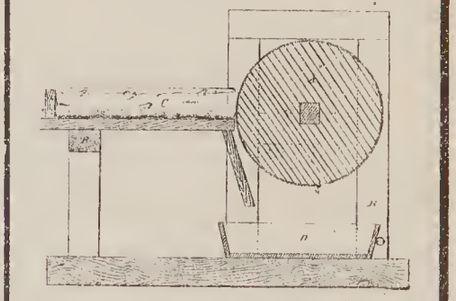
98,205, JOHN W. SUTTON.
DYNAMOMETERS.



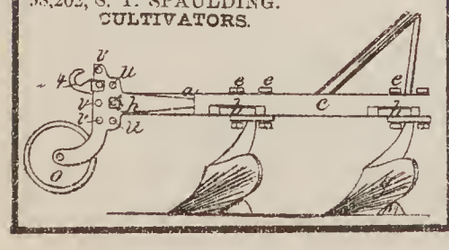
98,201, OLIVER SLAGLE.
RAILROAD-CAR VENTILATOR.



98,210, GEO. VINING. **MANUFACTURE OF PAPER-PULP FROM WOOD.**



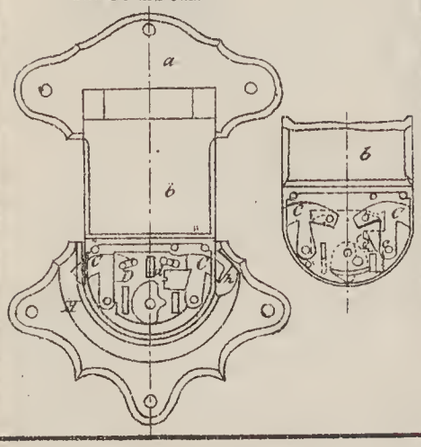
98,202, S. T. SPAULDING.
CULTIVATORS.



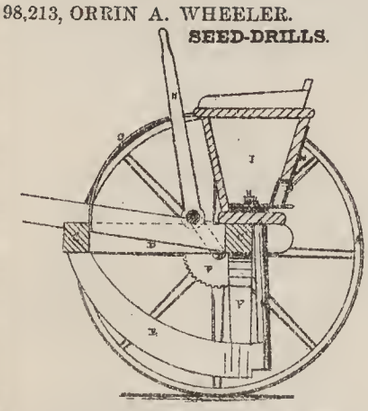
98,206, JOHN A. TAPLIN.
MACHINE FOR SAWING AND SPLITTING WOOD.

98,211, PETER M. WALLOVER.
COMPOUND OIL FOR MIXING PAINTS.

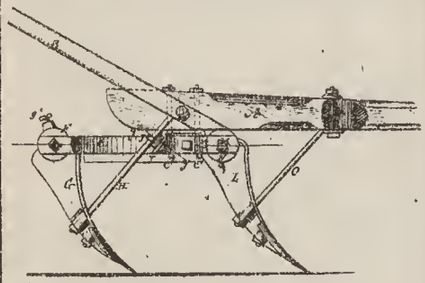
98,212, CORNELIUS WALSH.
JAMES F. CONNELLY.
ALFRED BRATT.
HASP-LOCK.



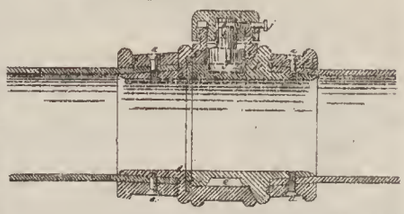
98,213, ORRIN A. WHEELER.
SEED-DRILLS.



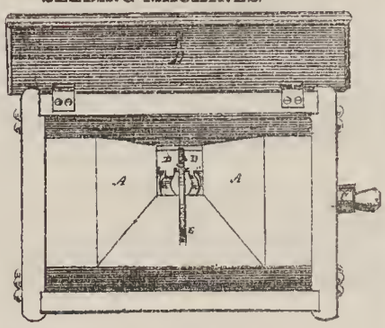
98,214, EDWARD WIARD.
EXPANDING TRIPLE-SHOVEL PLOW.



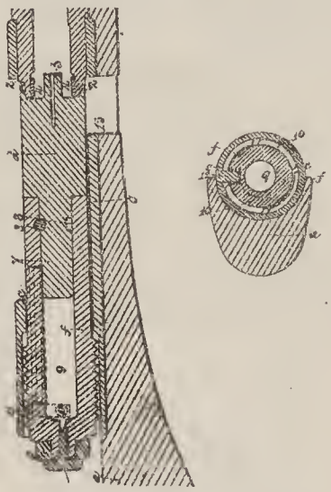
3,768, WILLIAM H. BLISS.
HOSE-COUPLINGS.



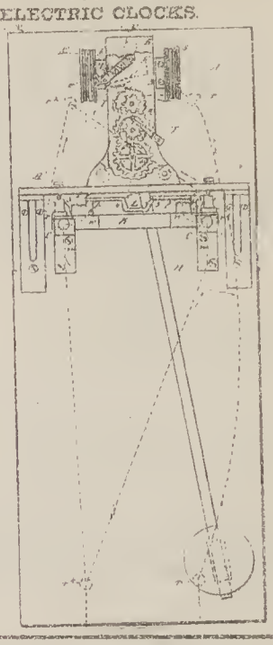
3,769, HENRY BUNDEL.
SEEDING-MACHINES.



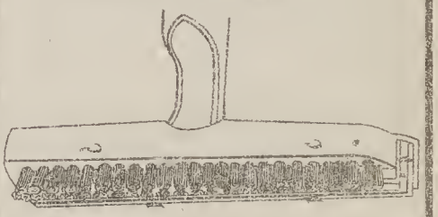
3,770, WILLIAM G. WARD.
BETHEL BURTON.
BREECH-LOADING FIRE-ARMS.



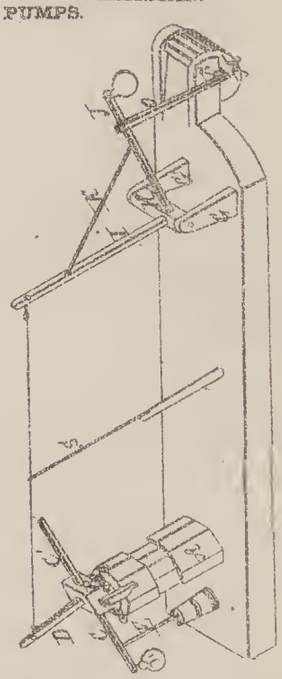
3,772, NATHANIEL BERRY,
O. H. SCHREINER
ELECTRIC CLOCKS.



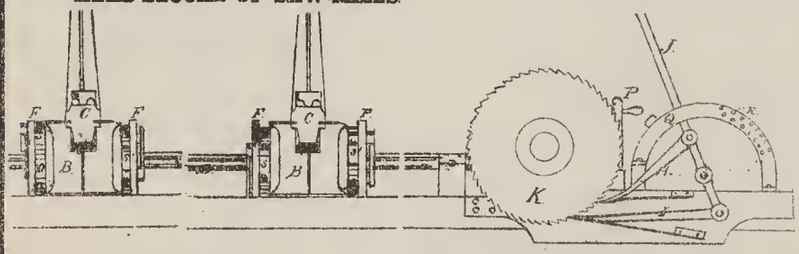
3,773, B. F. KOLLER.
SCRUBBING-BRUSH.



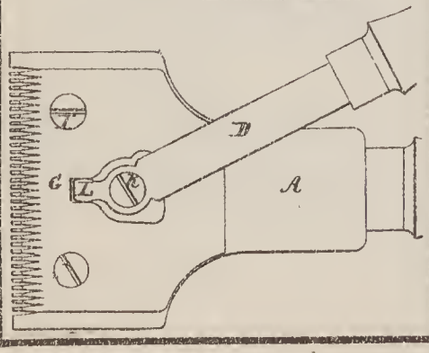
3,774, MARTIN W. ZIMMERMAN.
JOHN ZIMMERMAN.
PUMPS.



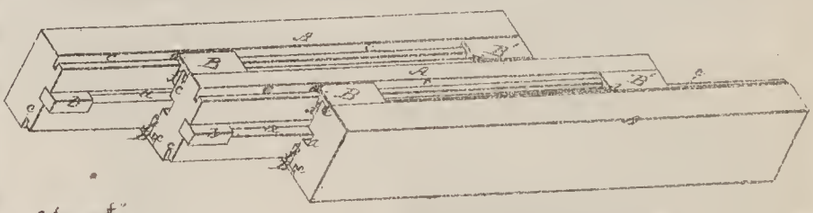
98,215, FRANKLIN J. STALEY.
HEAD-BLOCKS OF SAW-MILLS.

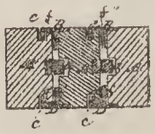


3,767, PATRICK ADIE.
MACHINE FOR CLIPPING HORSES' HAIR.



3,771, S. J. GENUNG.
EXTENSION-SLIDE FOR TABLES.





3,775, JOHN RALSTON.
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WILLIAM PARKINSON
WM. A. SHOEMAKER.
GEORGE E. BUCKLEY.
MANUFACTURE OF IRON AND STEEL.

ILLUSTRATIONS OF PATENTS

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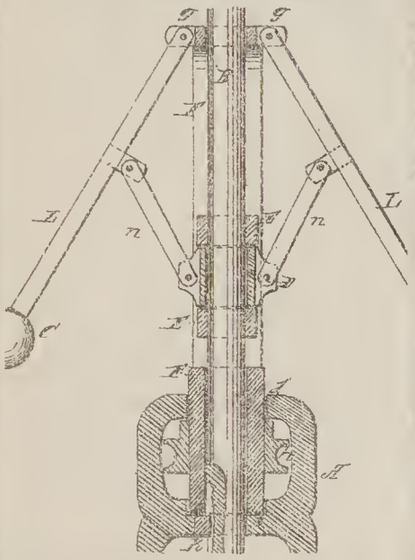
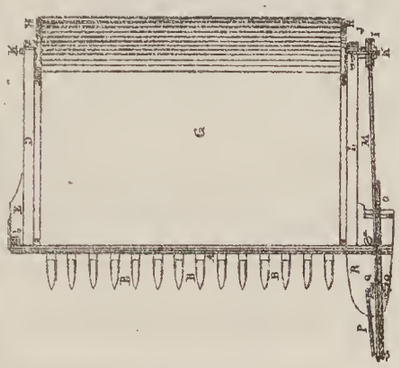
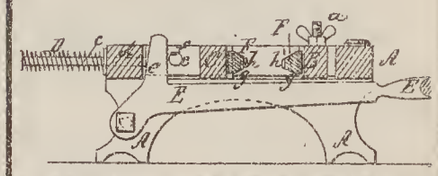
98,216, CHARLES DOUGHTY ALLEN.
STEAM-ENGINE GOVERNORS.

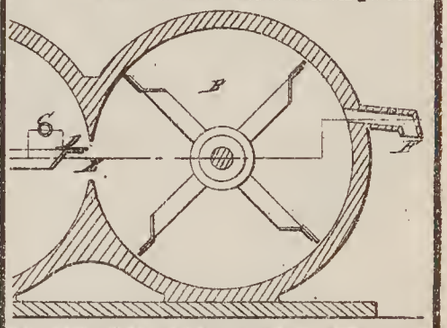




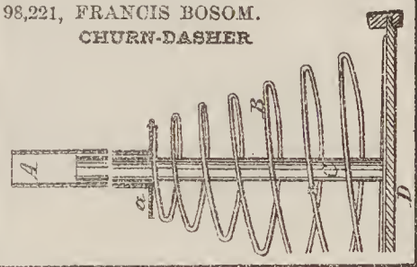
98,225, GEORGE W. BURTON.
MACHINE FOR LAYING OUT SASH AND BLINDS.



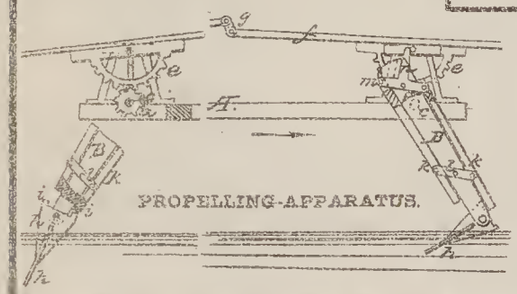
98,226, S. C. BRUCE. APPARATUS FOR MIXING AND AGEING LIQUORS.



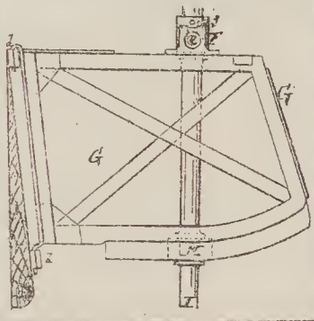
98,221, FRANCIS BOSOM.
CHURN-DASHER



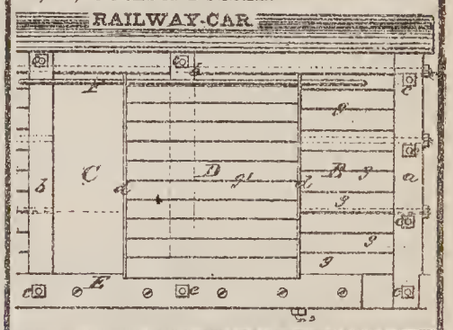
98,217, E. AVERILL.



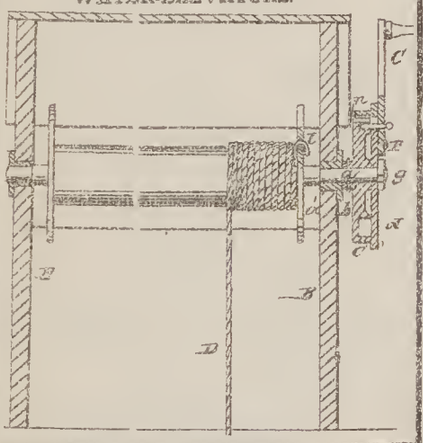
98,222, JOHN BOURNE.
PROPELLING-APPARATUS.



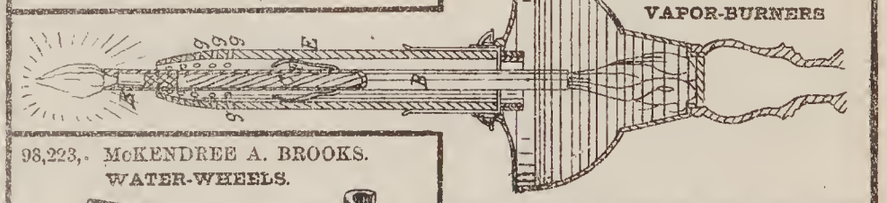
98,227, JOSEPH BUSSER.
RAILWAY-CAR.



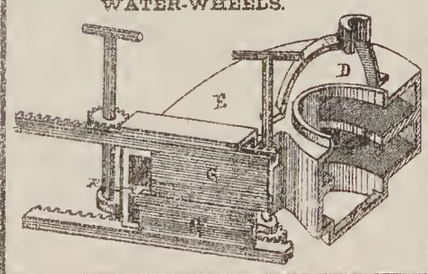
98,218, JABEZ K. BABCOCK.
WATER-ELEVATORS.



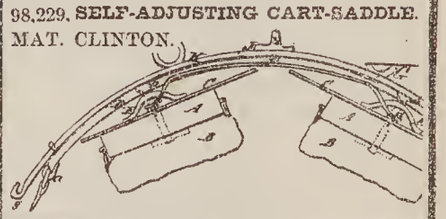
98,228, L. CHANDOR.
VAPOR-BURNERS



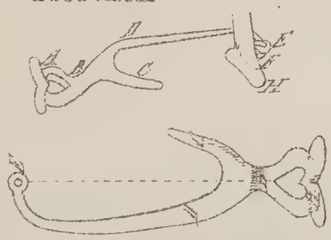
98,223, McKENDREE A. BROOKS.
WATER-WHEELS.



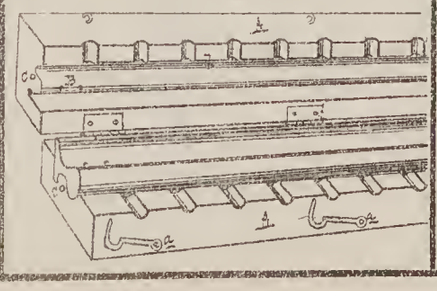
98,229, SELF-ADJUSTING CART-SADDLE.
MAT. CLINTON.



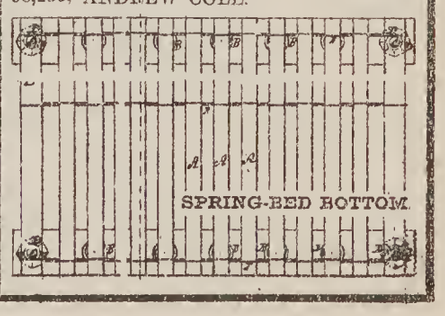
98,219, SYLVESTER P. BABCOCK.
BOOT-JACK.



98,224, JOHN BURT.
FINISHING-CASE FOR RAILWAY-BARS.

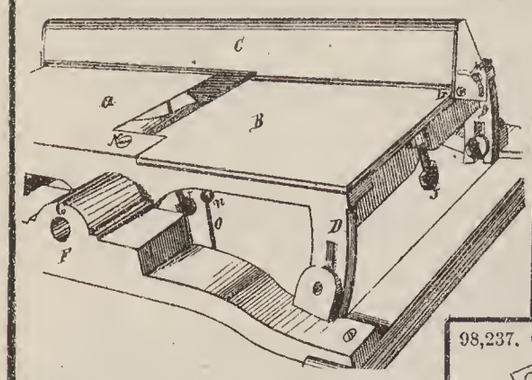


98,230, ANDREW COLE.

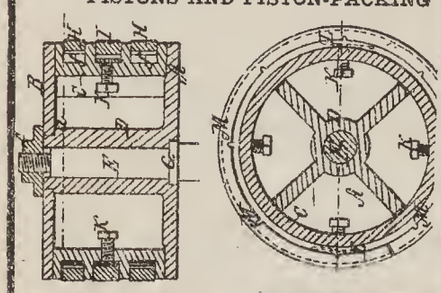


98,220, L. M. BATTY.
HARVESTERS.

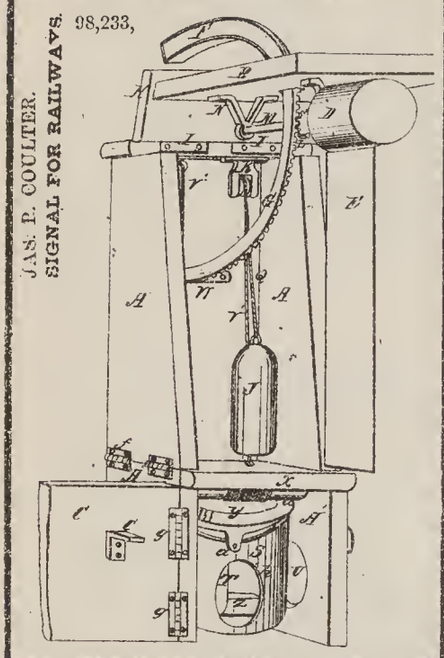
98,231. GIDEON W. COLE.
PLANING-MACHINE.



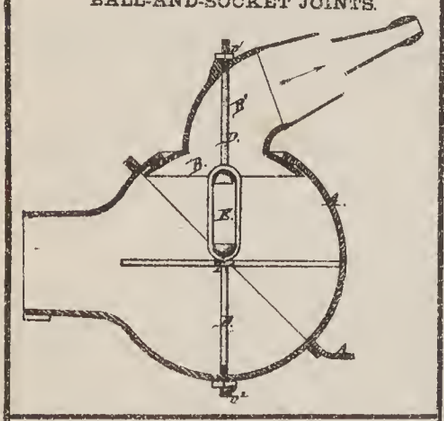
98,232, O. COLLIER.
PISTONS AND PISTON-PACKING



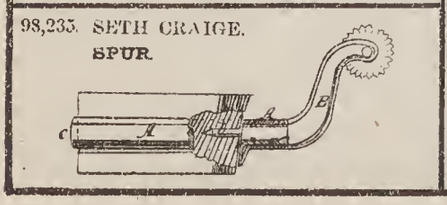
98,233,
JAS. P. COULTER.
SIGNAL FOR RAILWAYS.



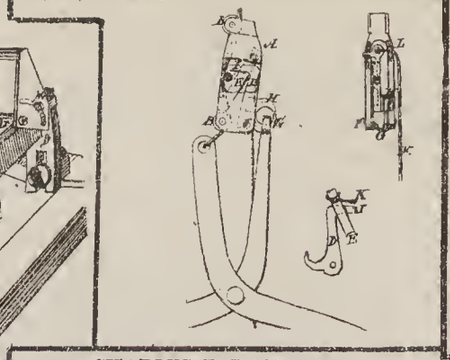
98,234, RANDOLPH RABY CRAIG.
JOSEPH CRAIG.
BALL-AND-SOCKET JOINTS.



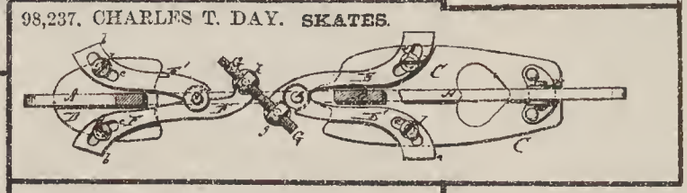
98,235. SETH CRAIGE.
SPUR.



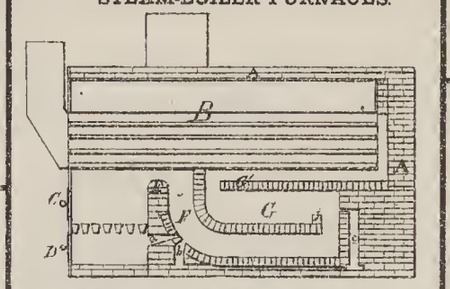
98,236. JAMES DAMPMAN **HAY-FORKS**



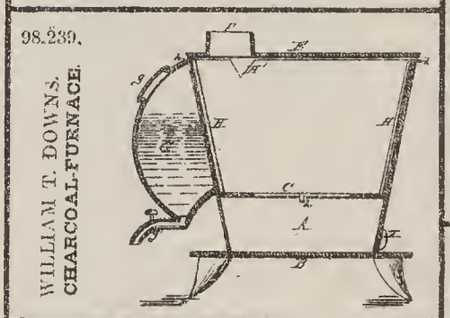
98,237. CHARLES T. DAY. **SKATES.**



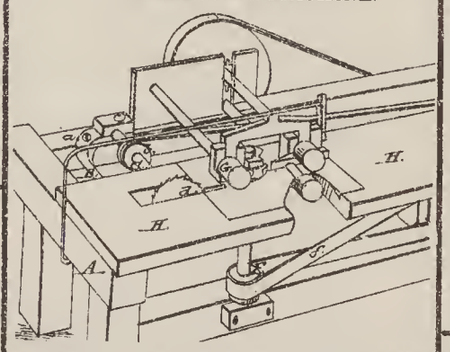
98,238. RICHARD S. DILLON.
STEAM-BOILER FURNACES.



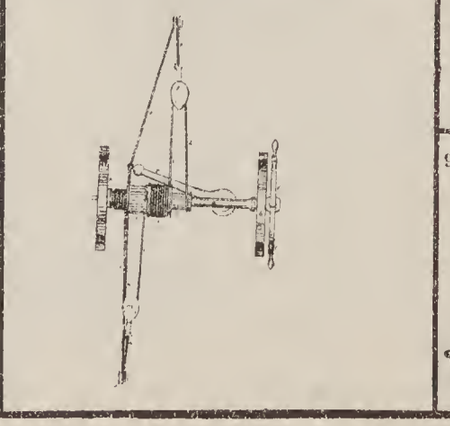
98,239.
WILLIAM T. DOWNS.
CHARCOAL-FURNACE.



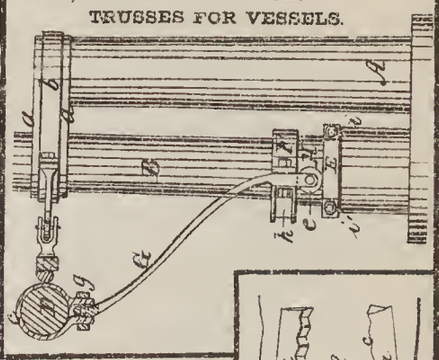
98,240, FOSTER ELLIS. **HOOP-CUTTING AND DRESSING-MACHINE.**



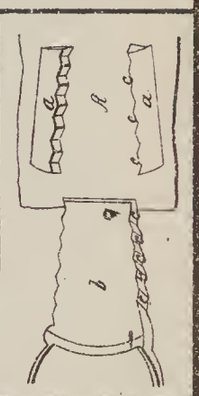
98,241, EDWARD FOX.
STEERING-APPARATUS.



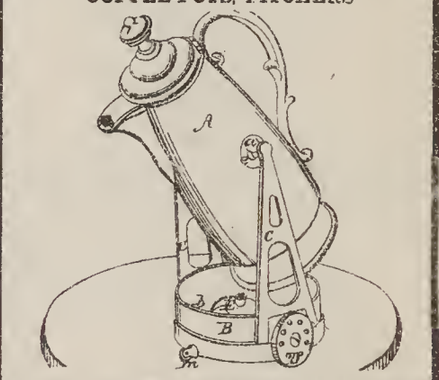
98,242, CHARLES FURBISH.
TRUSSES FOR VESSELS.



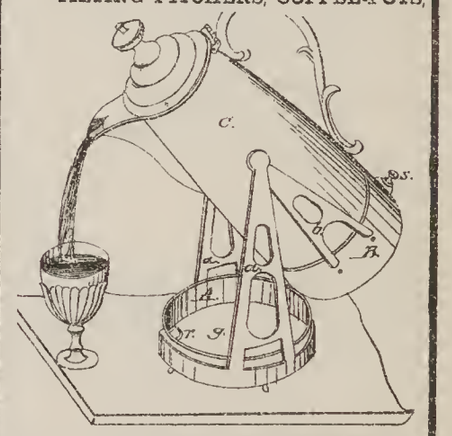
98,243.
JOHN GIBSON,
STOVE-LEGS.



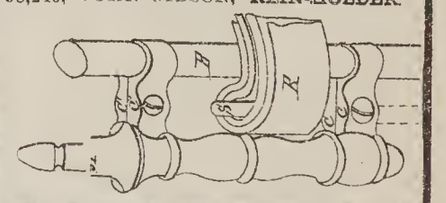
98,244. JOHN GIBSON,
COFFEE-POTS, PITCHERS



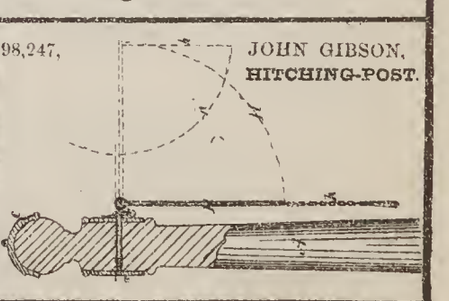
98,245, JOHN GIBSON. **DEVICE FOR TILTING PITCHERS, COFFEE-POTS,**



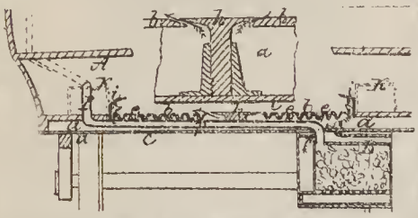
98,246, JOHN GIBSON, **REIN-HOLDER.**



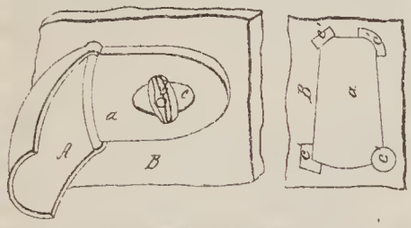
98,247, JOHN GIBSON,
HITCHING-POST.



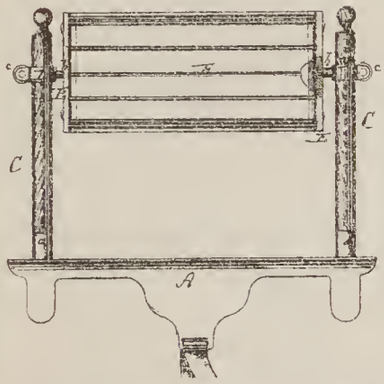
98,248, JOHN GIBSON,
RAILROAD-CAR HEATER.



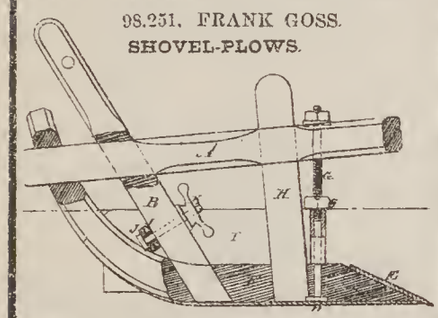
98,249, JOHN GIBSON, **METHOD OF SECURING LEGS TO STOVES.**



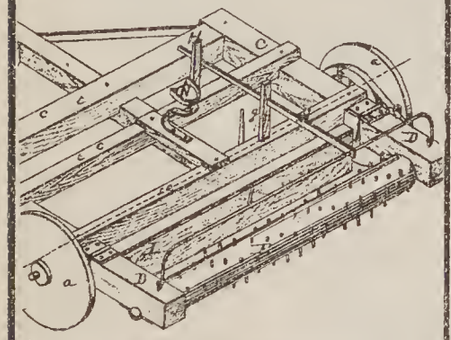
98,250, D. R. V. GOETCHINS.
HEAD-REST.



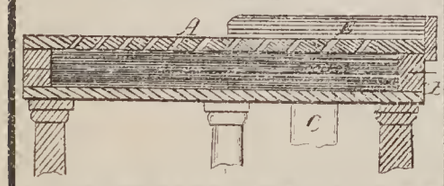
98,251, FRANK GOSS.
SHOVEL-PLOWS.



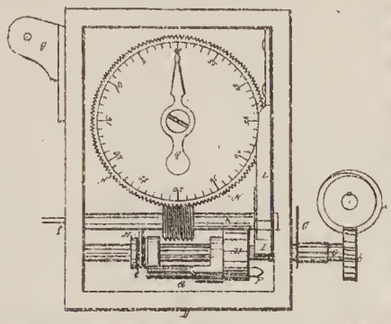
98,252, A. D. GRAY. **COMBINED SEED-SOWER AND HARROW.**

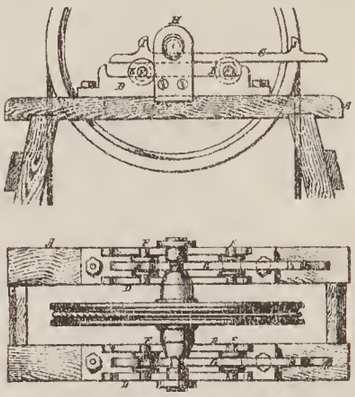


98,253, JOHN H. GRAY.
WILLIAM B. TURNER.
PAPER-FEEDERS.

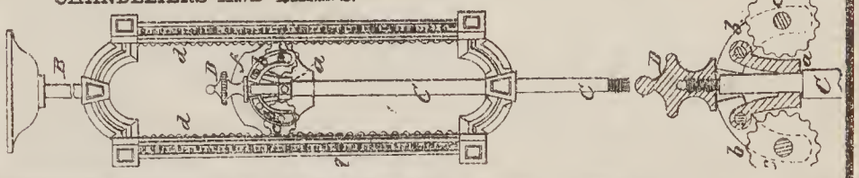


98,254, HENRY GREENWOOD.
REGISTER FOR SPINNING-JACKS.

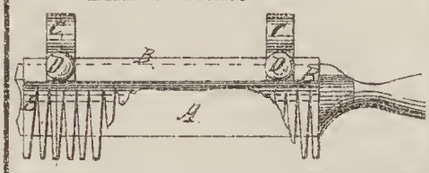




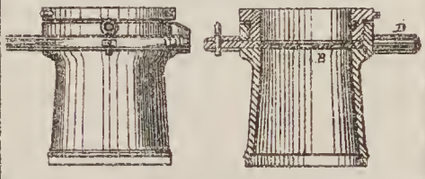
98,255, HENRY S. HALL. **APPARATUS FOR RAISING AND LOWERING CHANDELIERS AND LAMPS.**



98,256, GEORGE A. HARLEY.
HAIR-CUTTERS.

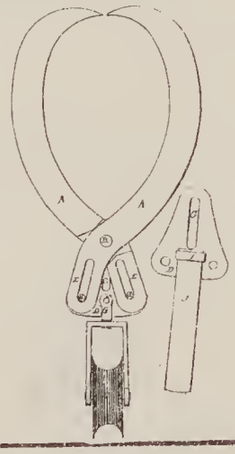


98,257, AARON HARRIS.
HYDRAULIC NOZZLES.



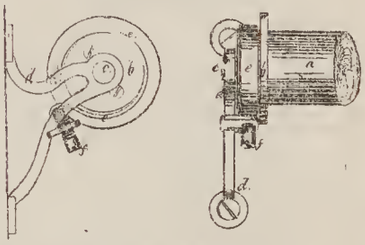
98,258, ELAM HARTER.
HORSE HAY-FORK.

98,259, ELAM HARTER.
GRAPPLING-HOOK.

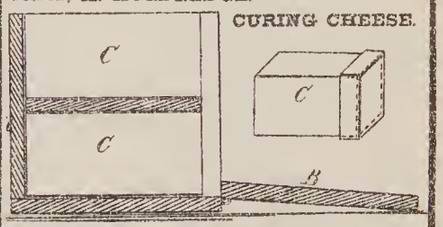


98,260, R. G. HATFIELD.
ANTI-FRICTION JOURNAL-BEARINGS FOR HOISTING-MACHINES.

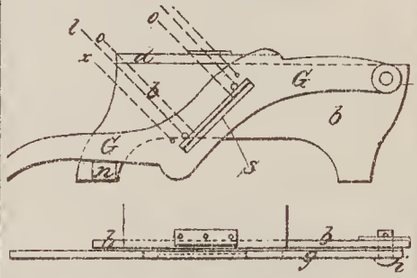
98,261, RUFUS E. HITCHCOCK.
CURTAIN-FIXTURE.



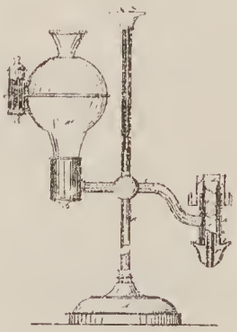
98,262, A. HOLDREDGE.
CURING CHEESE.



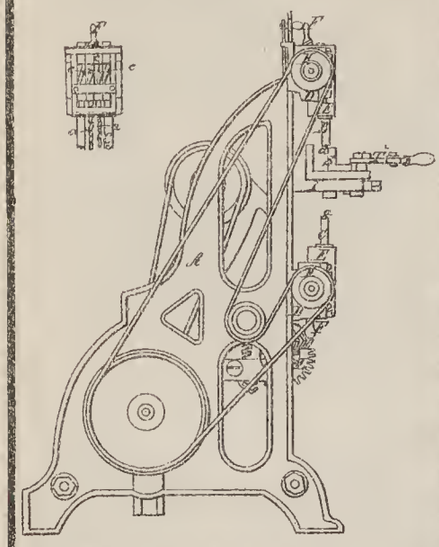
98,263, CHESTER J. HOLMES.
DAVID C. HOLMES.
DRIED-BEEF CUTTER.



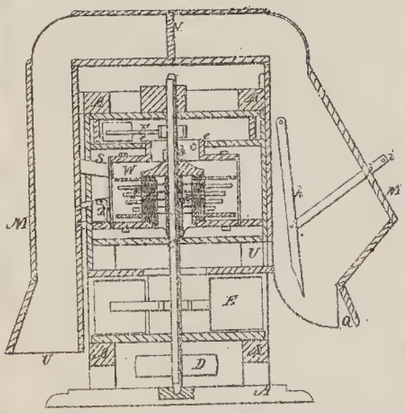
98,264, JOHN HORTON. **LAMPS.**



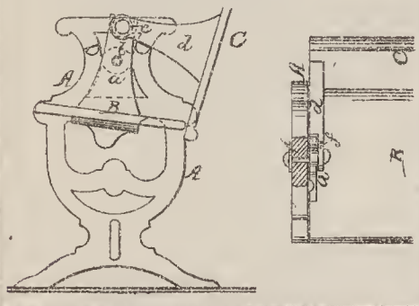
98,265, JOHN HUMPHREY.
BORING AND MORTISING-MACHINE.



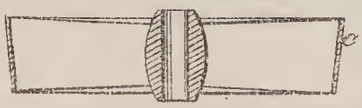
98,266, J. C. HUNT.
W. W. INGRAHAM.
GRAIN-SMUTTER, SCOURER, AND SEPARATOR.



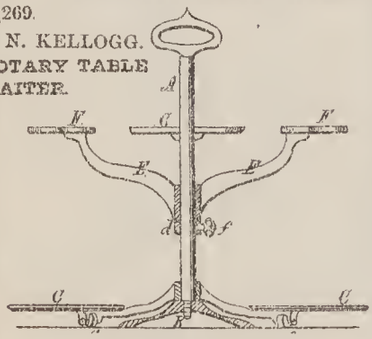
98,267, WM. H. JOECKEL.
REVERSIBLE CHAIR.



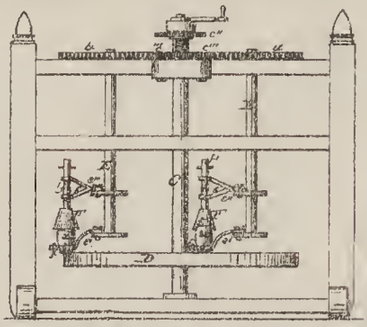
98,268, JAMES ALBERT JOYNER.
PROPELLER-WHEELS.



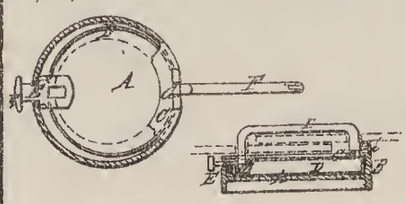
98,269.
A. N. KELLOGG.
ROTARY TABLE WAITER.



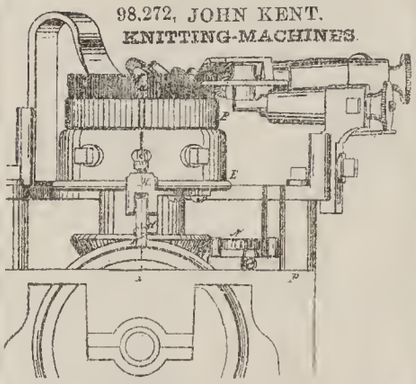
98,270, ALEXANDER W. KELLY.
JOHN B. SAMUEL.
MACHINE FOR GRINDING GLASS JARS.



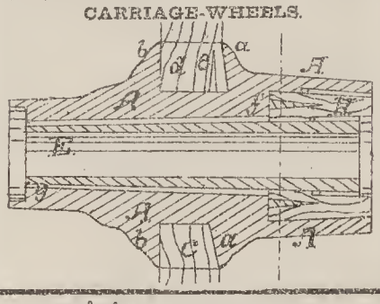
98,271, JNO. KENMUIR. BUTTONS.



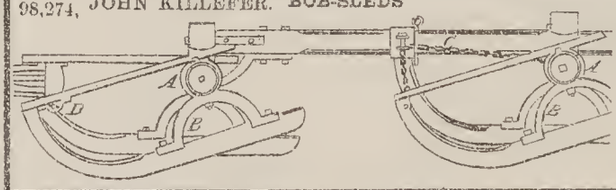
98,272, JOHN KENT.
KNITTING-MACHINES.



98,273, HORATIO KEYES.
CARRIAGE-WHEELS.



98,274, JOHN KILLEFER. BOB-SLEDS



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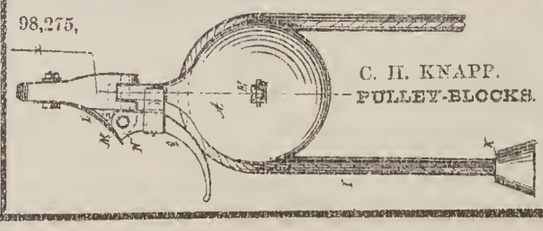
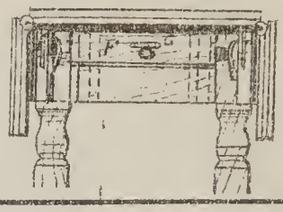
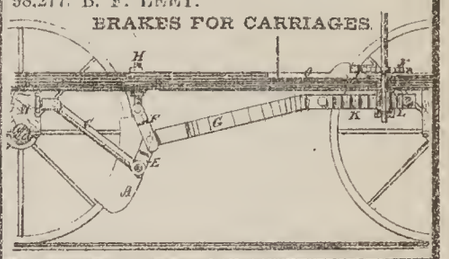
C. H. KNAPP.
PULLEY-BLOCKS.



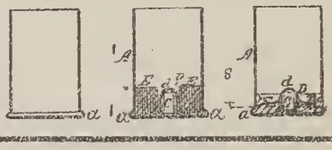
98,276, HEBER F. LEARNARD. TABLE.



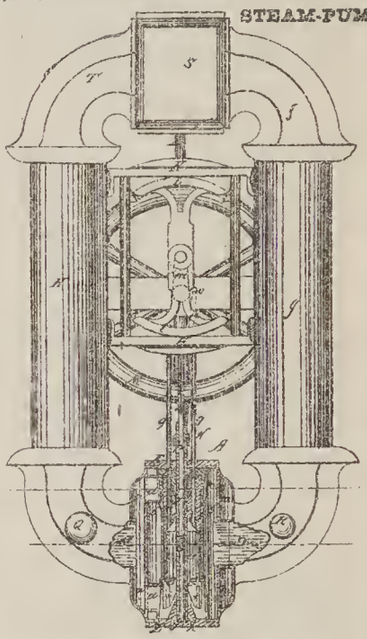
98,277. B. F. LEET.
BRAKES FOR CARRIAGES.



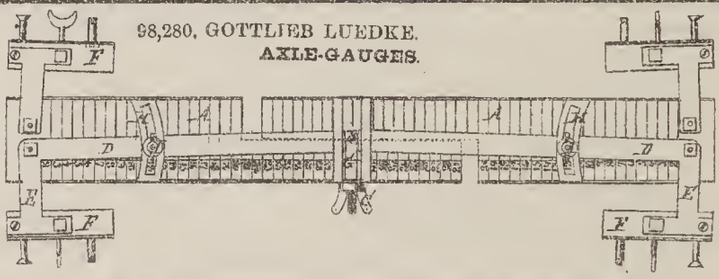
98,278 CHARLES D. LEET.
METALLIC CARTRIDGES.



98,279, JOHN A. LIDBACK.
STEAM-PUMP.

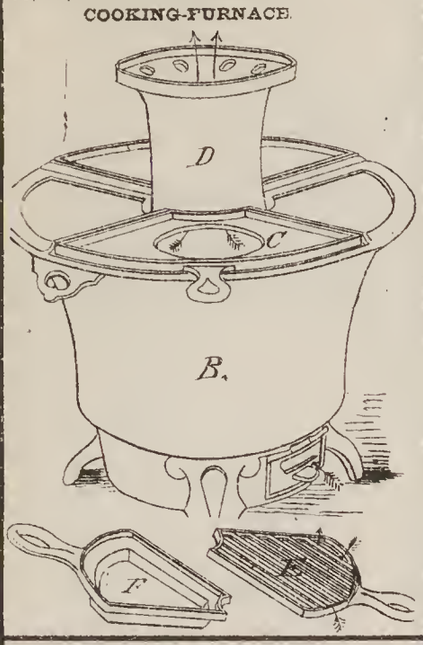


98,280, GOTTLIEB LUEDKE.
AXLE-GAUGES.

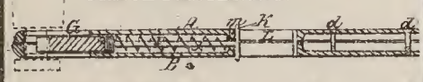


98,281,
C. R. MACY.
HARROWS.

98,282, ANGELINA MADISON.
COOKING-FURNACE.

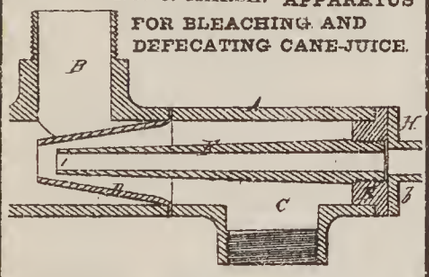


98,283, WILLIAM W. MALLERY.
CHARLES H. SAGE.
TRACE-FASTENING.

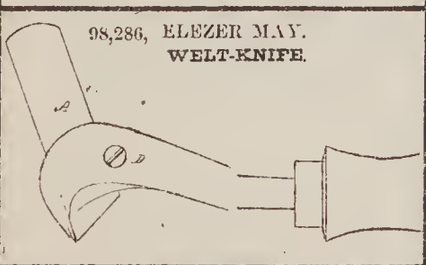


98,284, F. H. MANNY.
HARVESTER-RAKE.

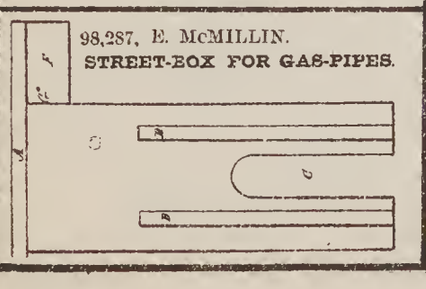
98,285, JNO. C. MARSH. **APPARATUS FOR BLEACHING AND DEFECATING CANE-JUICE.**



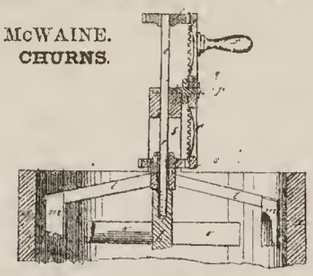
98,286, ELEZER MAY.
WELT-KNIFE.



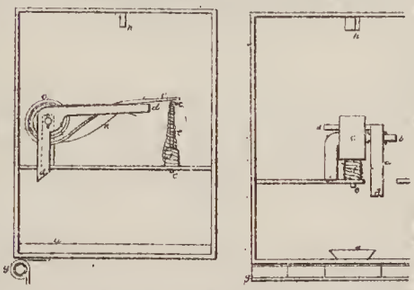
98,287, E. McMILLIN.
STREET-BOX FOR GAS-PIPES.



98,288.
A. H. McWAINE.
CHURNS.

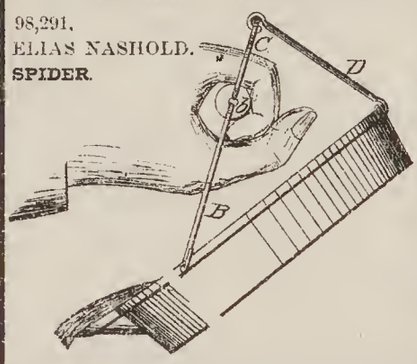


98,289, A. MEYER.
WATCHMAN'S TIME-DETECTER.

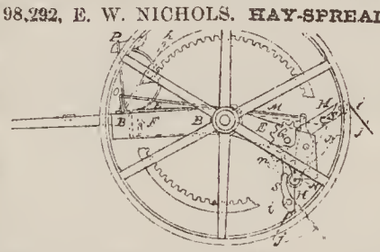


98,290, JAMES MONTGOMERY.
BAR OF HORSESHOE-BLANKS

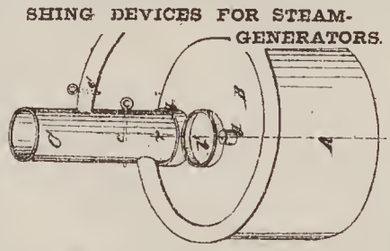
98,291,
ELIAS NASHOLD.
SPIDER.



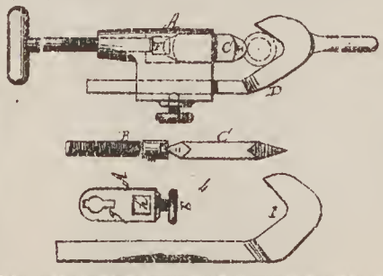
98,292, E. W. NICHOLS. **HAY-SPREADER**



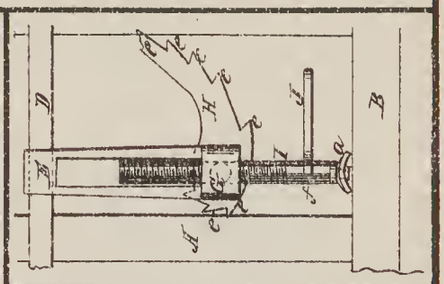
98,293, JOHN S. PATRIC.
LEWIS PATRIC.
DRAUGHT AND SPARK-EXTINGUISHING DEVICES FOR STEAM-GENERATORS.



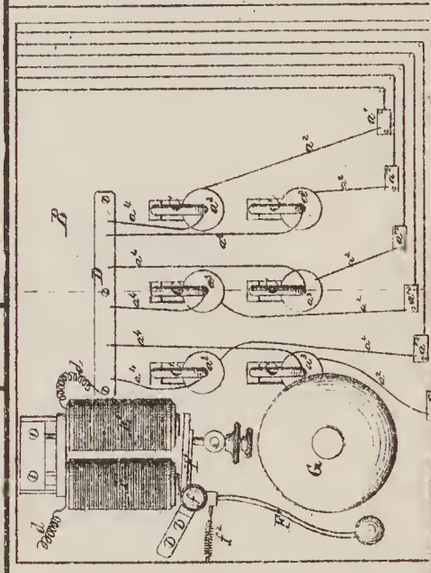
98,294, JOHN PEACE. **TUBE-CUTTER.**



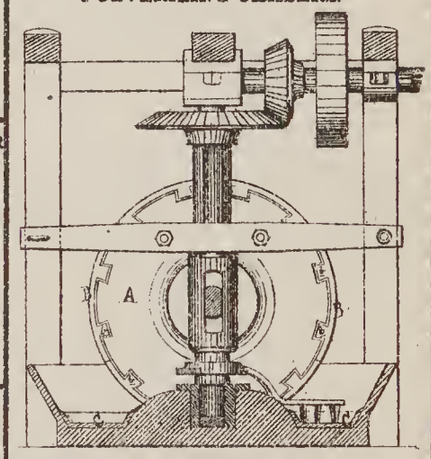
98,295, WM. H. PHILLIPS.
SHIPWRIGHTS' CLAMP.



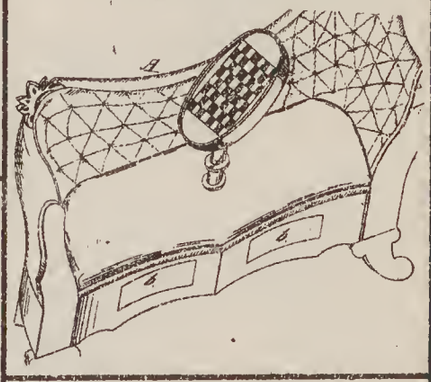
98,296, HENRY B. PORTER. **ELECTRICAL ANNUNCIATOR FOR HOTELS.**



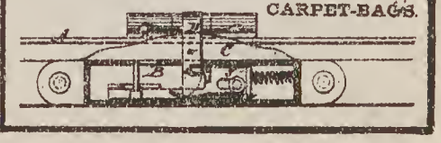
98,297, THEOPHILUS PUGH.
PULVERIZING-CHASERS.



98,298, WM. REICHENBACH.
FRIETRICH ROSCHDIANTZKY.
SOFA AND TABLE.

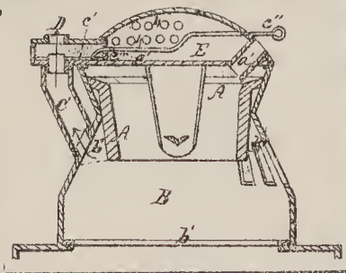


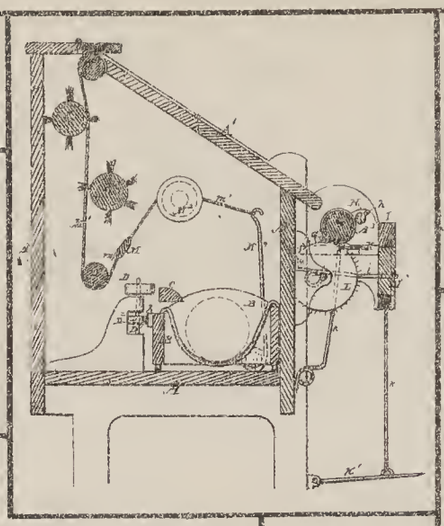
98,299, WILLIAM ROEMER.
LOCKS FOR SATCHELS AND CARPET-BAGS.



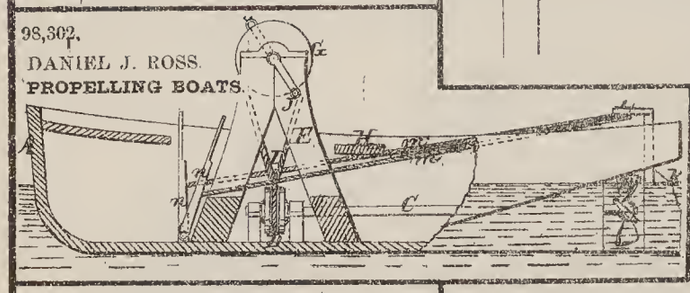
98,300, WILLIAM ROEMER. BUTTON AND PIN FOR CARPET-BAGS.

98,301, JOHN J. ROEPER. BASE-BURNING STOVE.



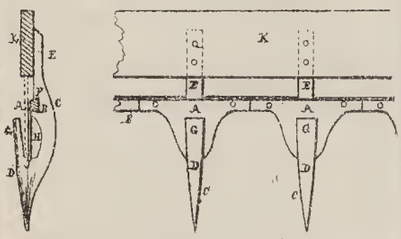


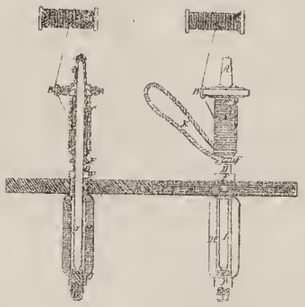
98,302, DANIEL J. ROSS. PROPELLING BOATS.



98,309, GEORGE SINGLETON. SPINDLE FOR SPINNING SILK.

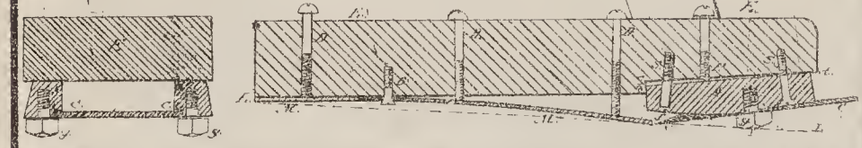
98,303, JA. SCHNEIDER. HARVESTER-CUTTER.



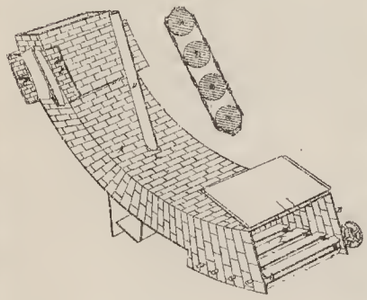


98,304, W. F. SEMPLE. CHEWING-GUM.

98,305, J. A. SEVEY. PLANE FOR SHAVING WHALEBONE.

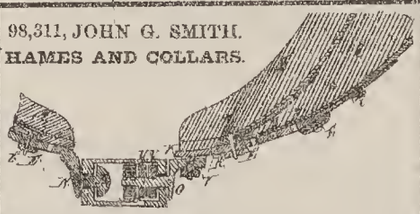


98,306, ZACHARIAH SHAW. PERPETUAL BRICK-BURNER.

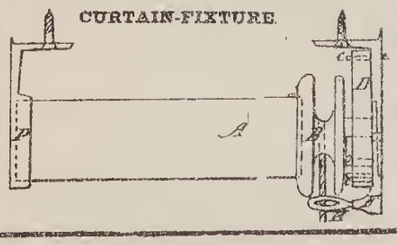


98,310, DAVID L. SMITH. APPARATUS FOR PACKING STUFFING-BOXES.

98,311, JOHN G. SMITH. HAMES AND COLLARS.

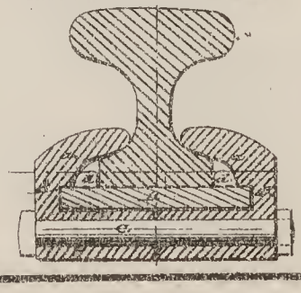


98,307, JOHN SHOREY, FREEMAN H. BUTLER. CURTAIN-FIXTURE.

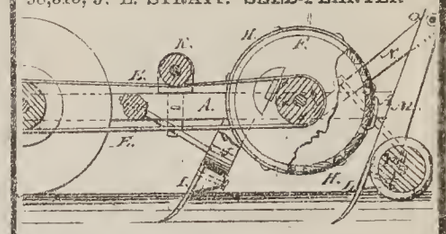


98,308, AUGUSTUS SIMPSON. MACHINE FOR FOLDING CLOTH.

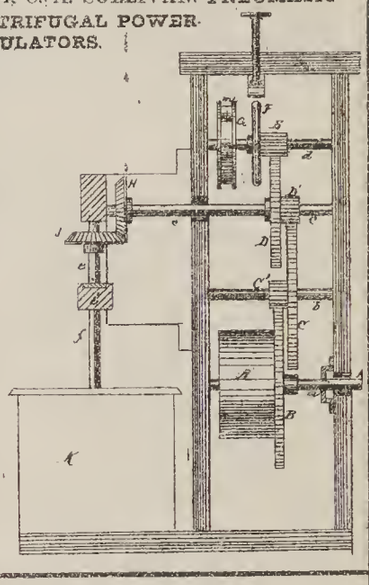
98,312, LOYST J. SMITH. RAILWAY-RAIL CHAIR.



98,313, J. L. STRAIT. SEED-PLANTER.

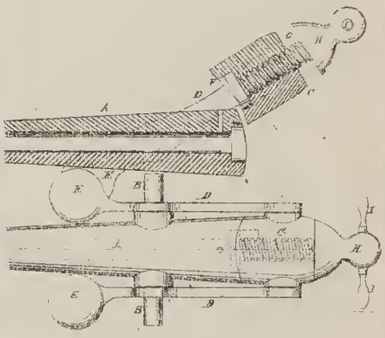


98,314, C. A. SULLIVAN. PNEUMATIC CENTRIFUGAL POWER-REGULATORS.

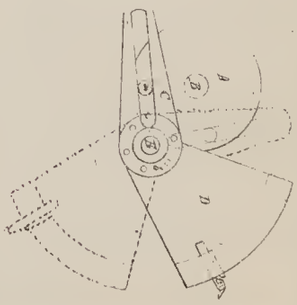


98,315, WILLIAM H. TILLOU. HAMES-FASTENER.

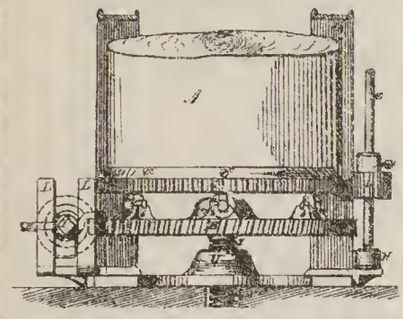
98,316, ELISHA H. TOBEY. BREECH-LOADING ORDNANCE.



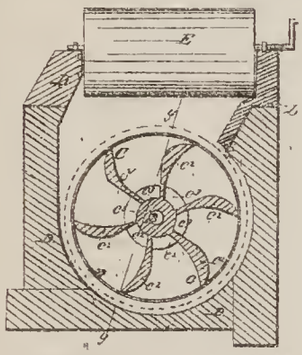
98,317, FREDK. TOWNSEND. MACHINE FOR QUARRYING AND DRESSING STONE.



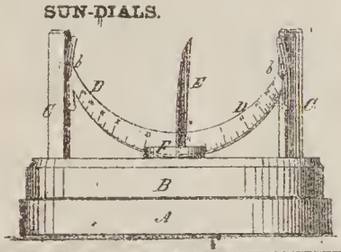
98,318. GEO. P. TREULIEB.
MEAT-CUTTERS.



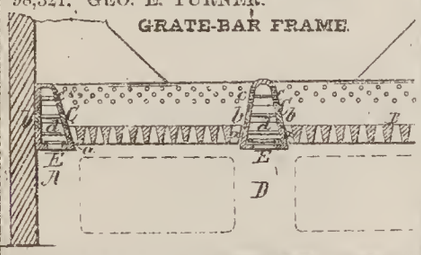
98,319, R. W. TRUDE. WATER-WHEELS.



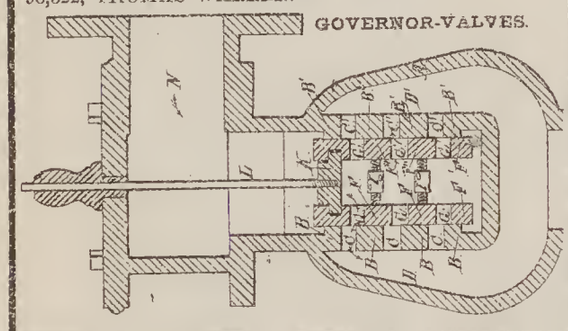
98,320, LUDWIG IGNATIUS TRUEG.
SUN-DIALS.



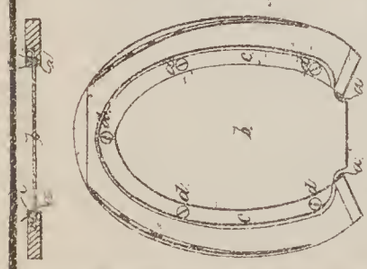
98,321. GEO. E. TURNER.
GRATE-BAR FRAME.



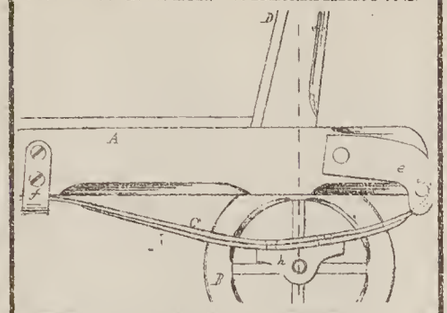
98,322, THOMAS WARREN.
GOVERNOR-VALVES.



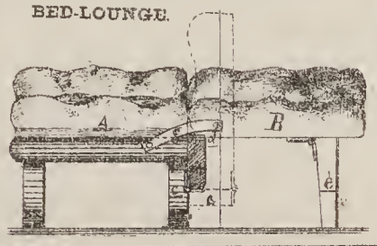
98,323, THOMAS WATERHOUSE.
CHARLES F. McKENNEY.
HORSESHOE.



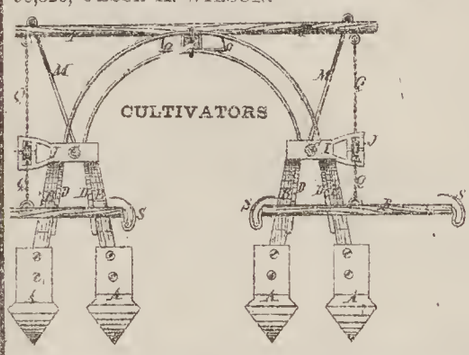
98,324, J. G. WEIR. WHEELBARROWS



98,325, BENJAMIN C. WILKINS.
BED-LOUNGE.

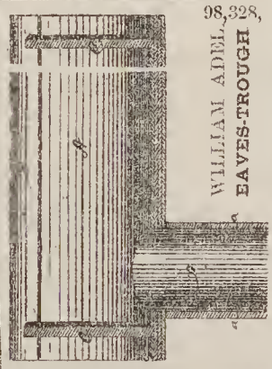


98,326, JESSE A. WILSON.
CULTIVATORS

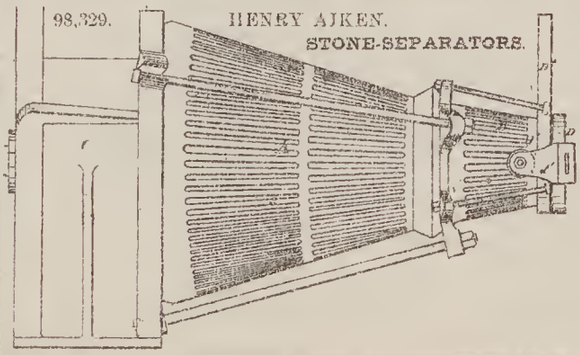


98,327, S. E. ADAMSON.
CARD-HOLDERS.

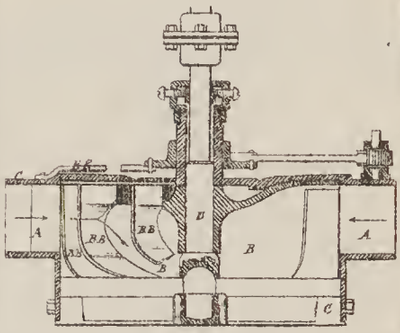
98,328, WILLIAM ADEL.
EAVES-TROUGH



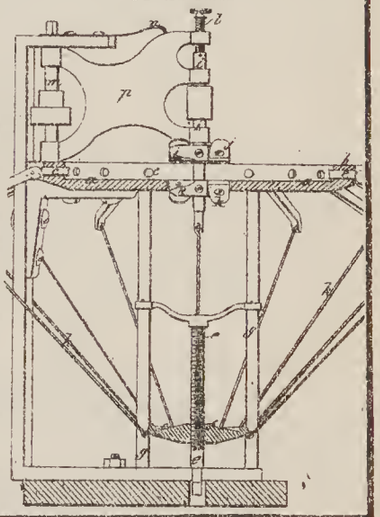
98,329. HENRY AIKEN.
STONE-SEPARATORS.



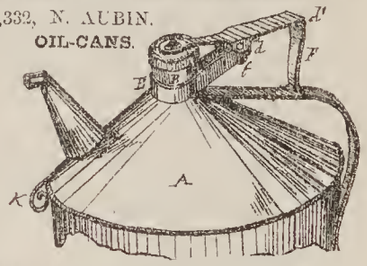
98,330, OTIS N. ANGELL.
ANDREW J. ANGELL.
TURBINE WATER-WHEELS.



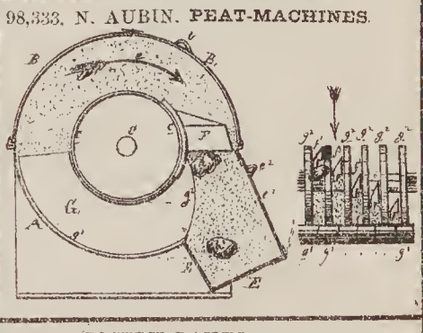
98,331, E. A. ARCHIBALD.
MACHINES FOR THE MANUFACTURE OF SPOKED WHEELS.



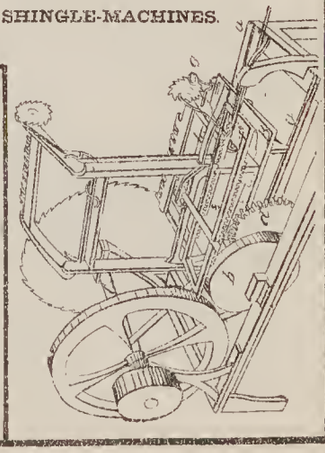
98,332, N. AUBIN.
OIL-CANS.



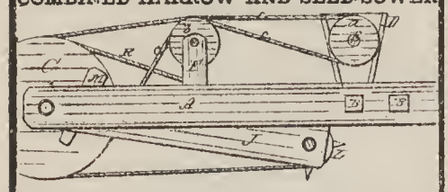
98,333. N. AUBIN. PEAT-MACHINES.



98,334, JOSEPH BAKER.
SHINGLE-MACHINES.

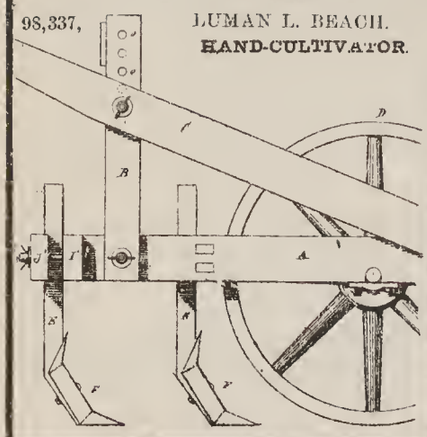


98,335, E. A. BARTON.
COMBINED HARROW AND SEED-SOWER.

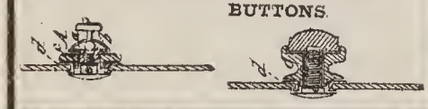


98,336, BENJAMIN BAUGH.
ENAMELLING IRON AND STEEL.

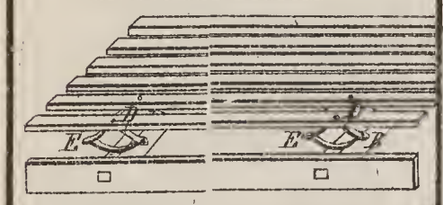
98,337, LUMAN L. BEACH.
HAND-CULTIVATOR.



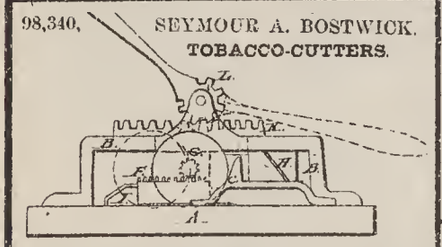
98,338, C. BECKER, MORRIS WISE.
BUTTONS.



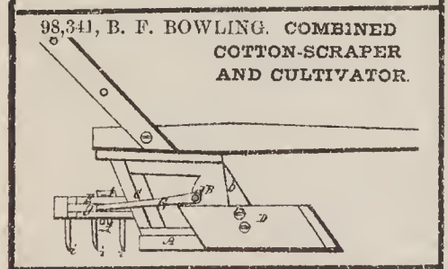
98,339, CHAS. H. BERRY.
SPRING-BED BOTTOM.



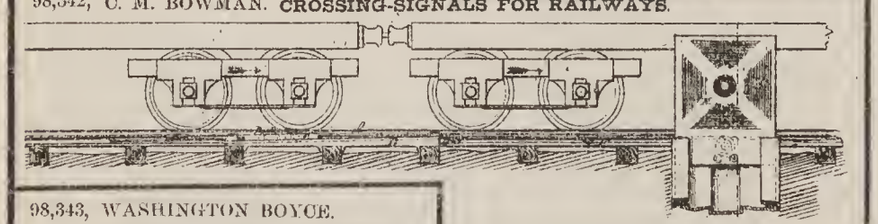
98,340, SEYMOUR A. BOSTWICK.
TOBACCO-CUTTERS.



98,341, B. F. BOWLING. **COMBINED COTTON-SCRAPER AND CULTIVATOR.**

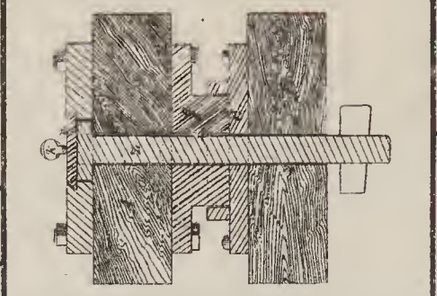


98,342, C. M. BOWMAN. **CROSSING-SIGNALS FOR RAILWAYS.**

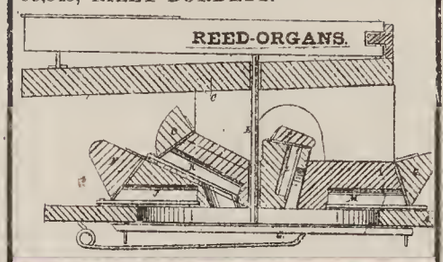


98,343, WASHINGTON BOYCE.
APPARATUS FOR FILTERING VOLATILE LIQUIDS.

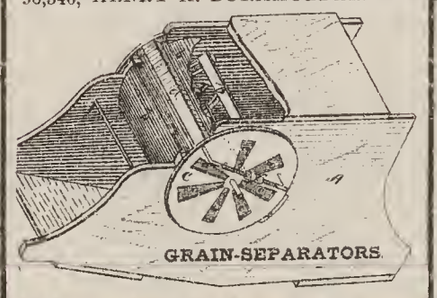
98,344, JAMES M. BUCKLIN. **KING-BOLT FOR RAILWAY-CAR TRUCKS.**



98,345, RILEY BURDETT.
REED-ORGANS.

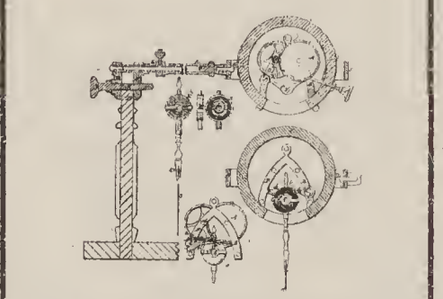


98,346, HENRY K. BURKHOLDER.

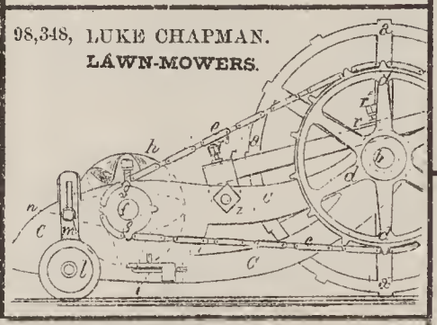


GRAIN-SEPARATORS.

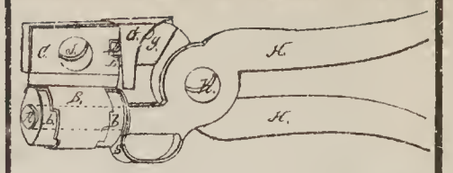
98,347, CHARLES F. BURLEIGH.
AUTOMATIC FAN.



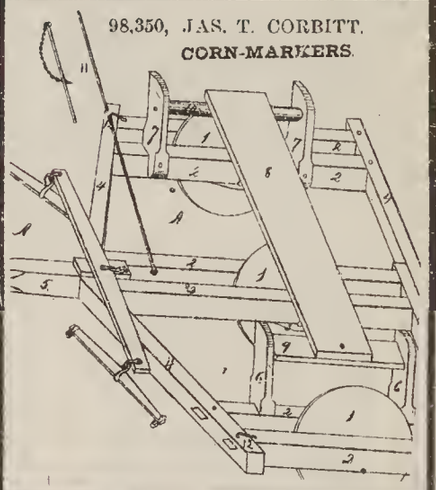
98,348, LUKE CHAPMAN.
LAWN-MOWERS.



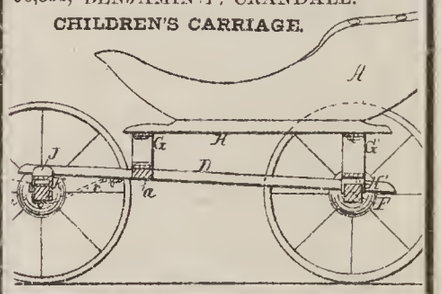
98,349, DANIEL G. CHASE.
BUTTON-HOLE CUTTERS.



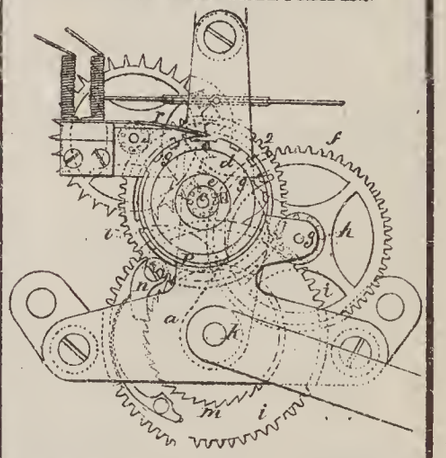
98,350, JAS. T. CORBITT.
CORN-MARKERS.



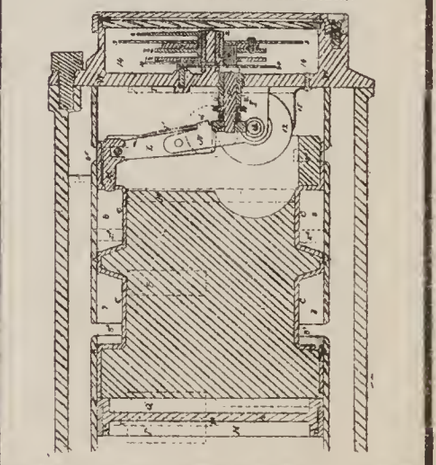
98,351, BENJAMIN P. CRANDALL.
CHILDREN'S CARRIAGE.



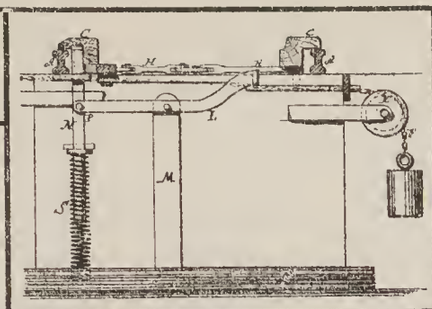
98,352, MOSES G. CRANE.
SIGNAL-BOX MECHANISM FOR FIRE-ALARM TELEGRAPHS.



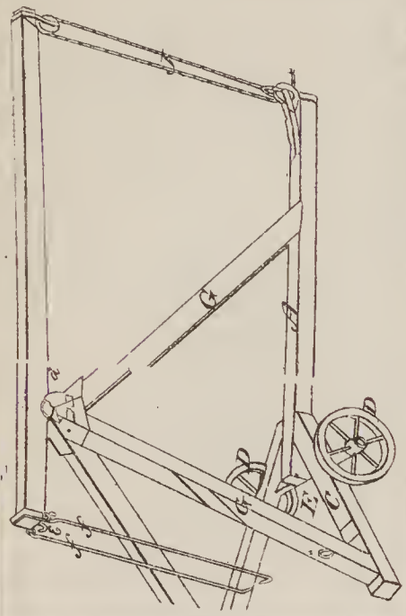
98,353, ROBERT CREUZBAUR.
PISTON LIQUID-METERS.



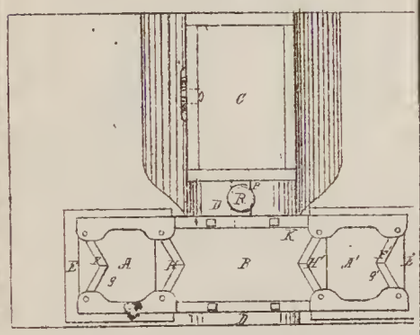
98,354, JOHN J. CROOKE.
LEWIS CROOKE.
PLATING IRON FOR THE MANUFACTURE OF HINGES.



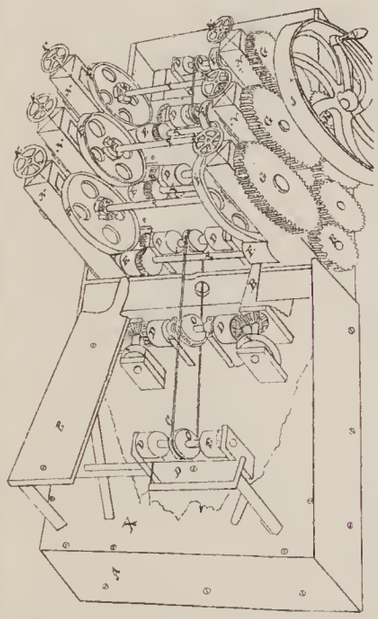
98,355, C. W. DAWSON.
STUMP-EXTRACTORS.



98,356, E. MORTIMER DEEY.
APPARATUS FOR FLOATING SHIPS OVER SAND-BARS.

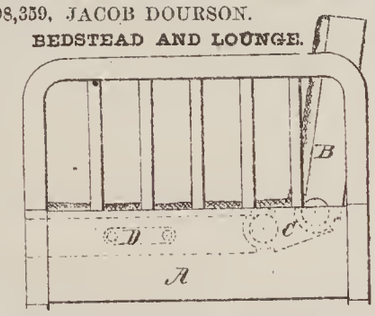


98,357, SAMPSON P. DICK.
DAVID R. MUSSELMAN.
TOBACCO-PRESSES.

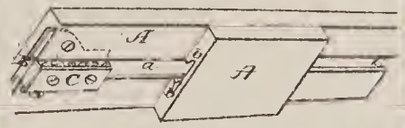


98,358, JOHN DONALDSON.
GEORGE REAVELY.
JAMES FRANCIS.
CHOKE-BLOCK FOR RAILWAYS.

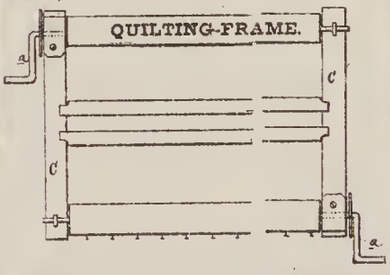
98,359, JACOB DOURSON.
BEDSTEAD AND LOUNGE.



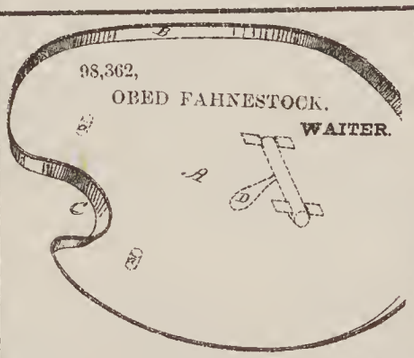
98,360, JACOB DOURSON.
EXTENSION-TABLE ROLLER-SLIDE.



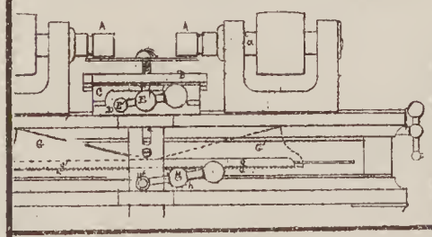
98,361, ALVA E. ELLIS.
QUILTING-FRAME.



98,362,
OBED FAHNESTOCK.
WAITER.



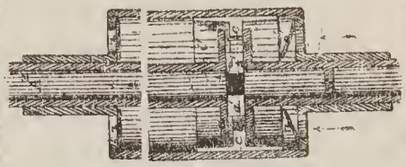
98,363, HENRY FAIRBANKS.
MACHINE FOR MILLING KNIFE-EDGES OF SCALE-BEAMS.



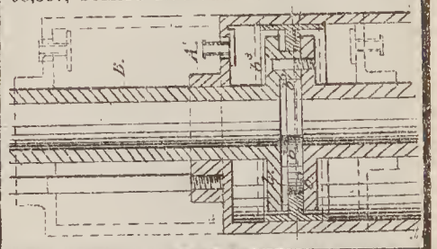
98,364, WILLIAM FIELDS.
THE MANUFACTURE OF SHEET-IRON.

98,365, JAMES M. FORD.
SASH-CORD GUIDE-BLOCK

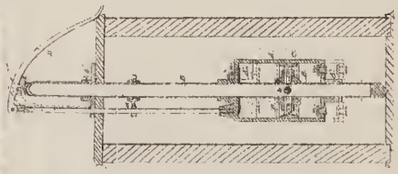
98,366, ISAAC N. FORRESTER. **PUMPS.**



98,367, ISAAC N. FORRESTER. **PUMPS.**

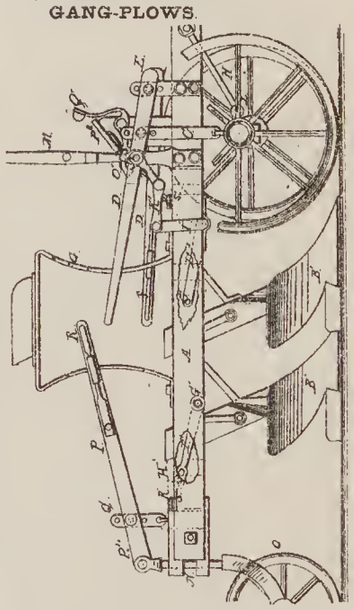


98,368, ISAAC N. FORRESTER. **PUMPS.**

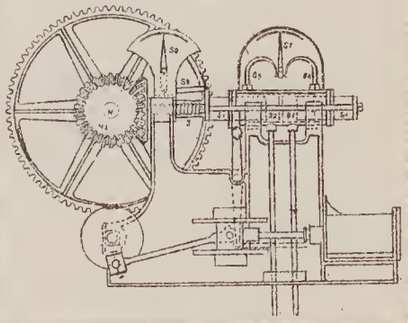


98,369, JAS. D. FRARY.
HANDLES FOR CUTLERY.

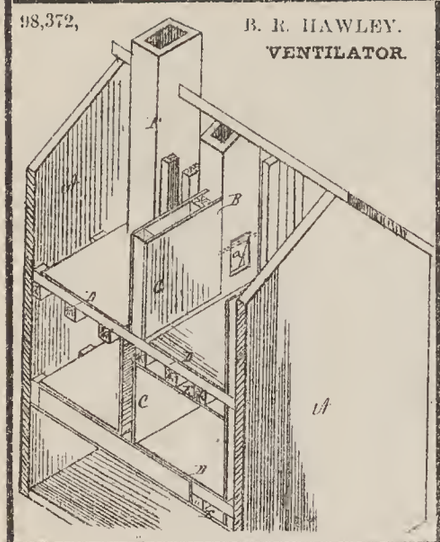
98,370, EMERSON E. GORE.
GANG-PLOWS.



98,371, JOHN McFARLANE GRAY.
STEAM STEERING-APPARATUS.

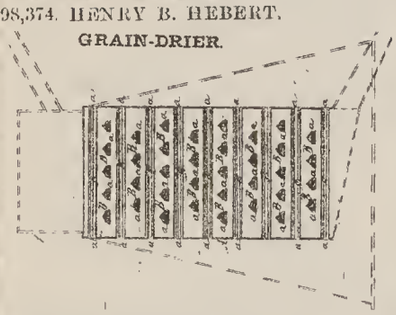


98,372, B. R. HAWLEY.
VENTILATOR.

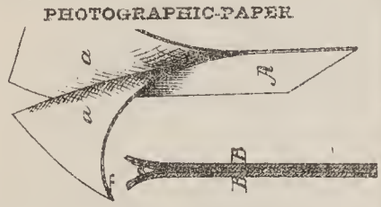


98,373, THOMAS HEAP.
CONCRETE BLOCKS FOR BUILDING AND OTHER PURPOSES

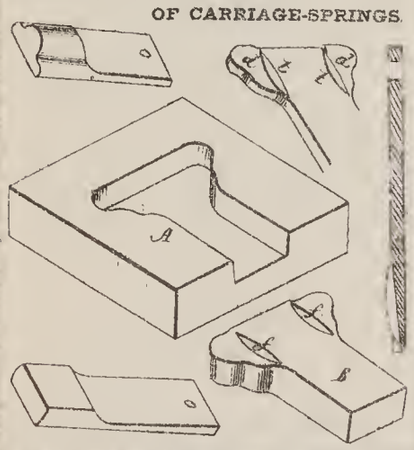
98,374. HENRY B. HEBERT.
GRAIN-DRIER.



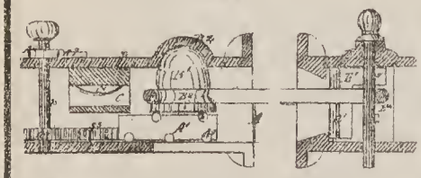
98,375, H. M. HEDDEN.
PHOTOGRAPHIC-PAPER.



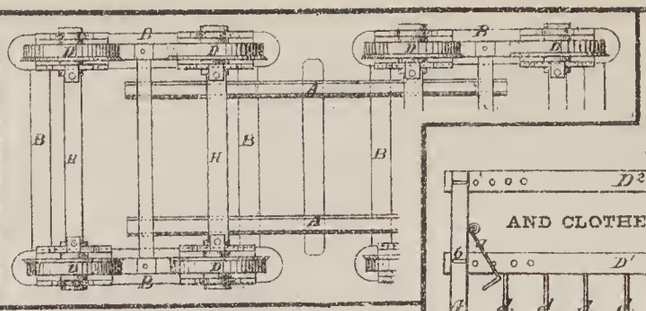
98,376, B. T. HENRY.
METHOD OF FORMING THE HEADS OF CARRIAGE-SPRINGS.



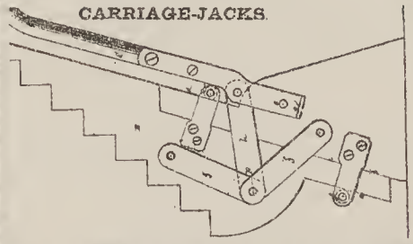
98,377, THOS. R. HERD.
CAR-COUPLING.



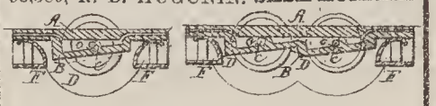
98,378, GEO. HERRICK.
RAILWAY-CAR TRUCK.



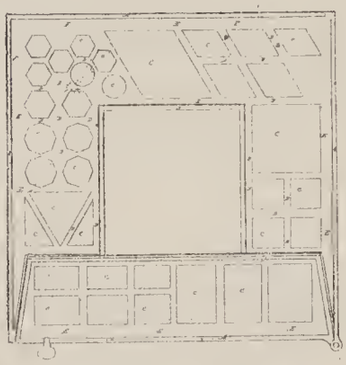
98,379. FRANCIS HOVEY.
CARRIAGE-JACKS.



98,380, R. B. HUGUNIN. SASH-HOLDERS

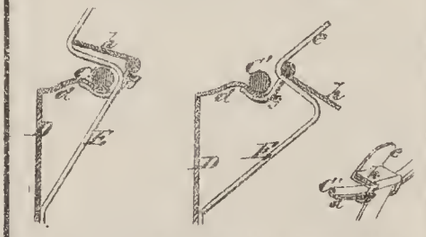


98,381, THEODORE HYATT.
RENDERING SAFES, VAULTS, AND CHESTS FIRE-PROOF.



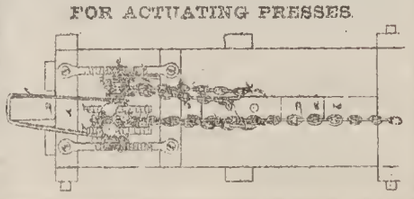
98,382, JOHN HORSLEY. NITRO-GLYCERINE COMPOUND FOR BLASTING.

98,383, JNO. HUGHES. LANTERNS.

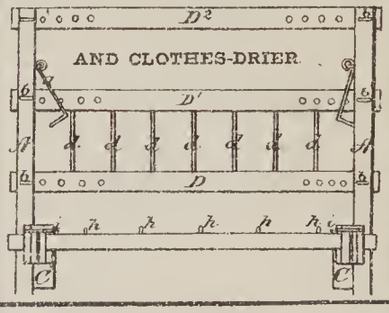


98,384, M. G. IMBACH.
CURTAIN-FIXTURE.

98,385, P. C. INGERSOLL.
MECHANICAL MOVEMENTS FOR ACTUATING PRESSES.

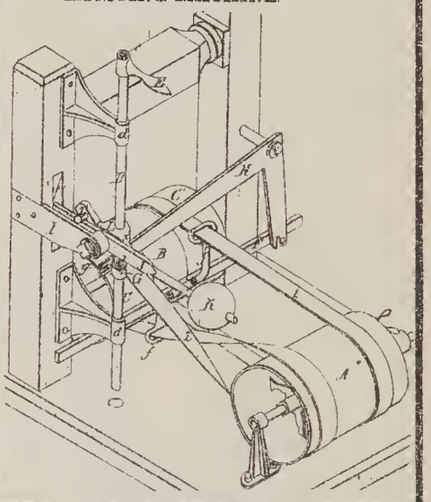


98,386,
JOHN G. ISHLER.
QUILTING-FRAME AND CLOTHES-DRIER.

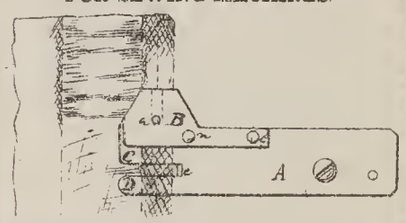


98,387. JOHN JEANNING.
BLEACHING COTTON AND WOOLLEN FABRICS

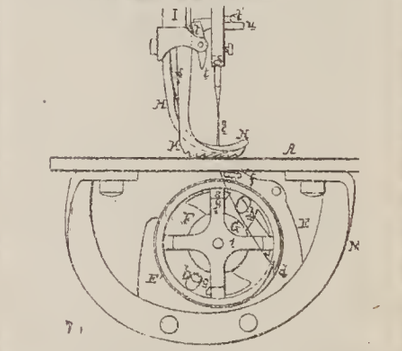
98,388, GEORGE JOHNSON.
HOISTING-MACHINE.



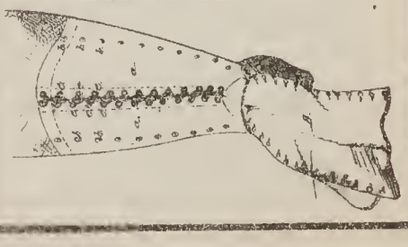
98,389, AMASA C. KASSON.
RUFFLING-ATTACHMENT FOR SEWING-MACHINES.



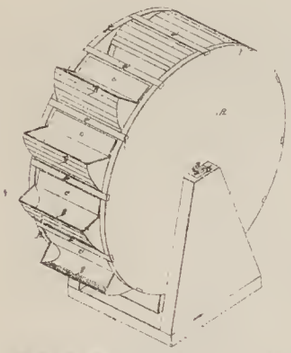
98,390 THOS. LAMB.
SEWING-MACHINE.



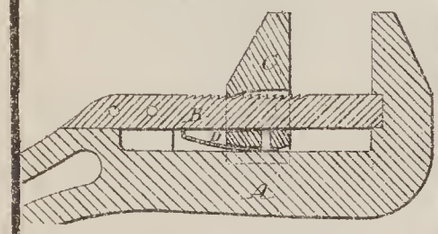
98,391, WILLIAM LOVE
LADIES' BOOTS.



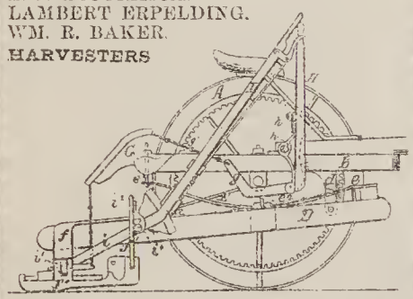
98,392. THOMAS LOWDEN.
WATER-WHEELS



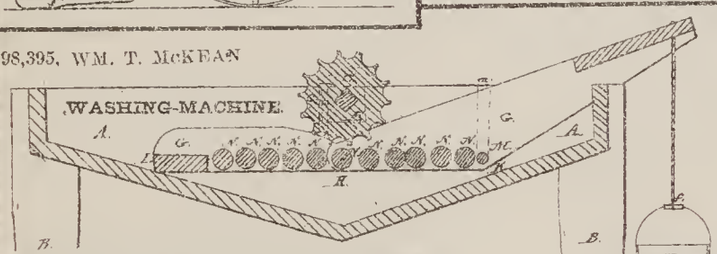
98,393. JAMES MAGEE.
ADJUSTABLE WRENCH.



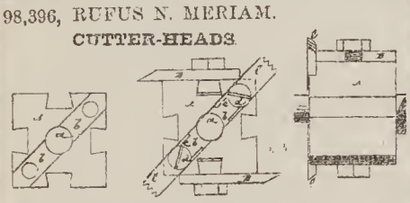
98,394.
L. J. McCORMICK.
LAMBERT ERPELDING.
WM. R. BAKER.
HARVESTERS



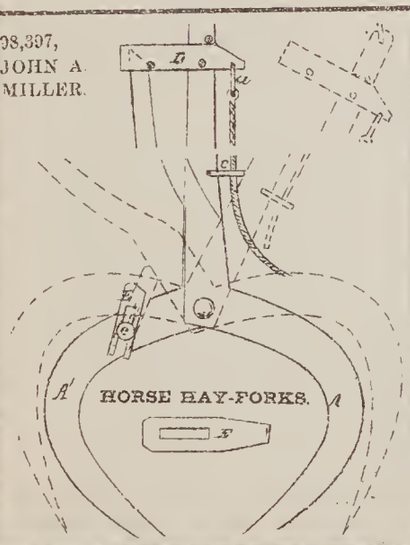
98,395. WM. T. McKEAN
WASHING-MACHINE.



98,396, RUFUS N. MERIAM.
CUTTER-HEADS.

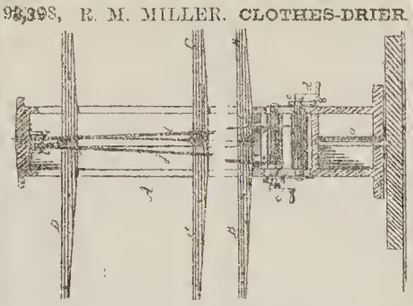


98,397,
JOHN A. MILLER.

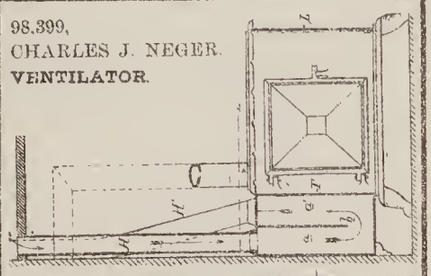


HORSE HAY-FORKS.

98,398, R. M. MILLER. **CLOTHES-DRIER.**

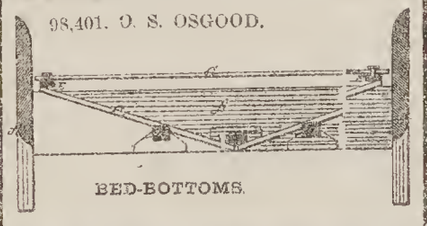


98,399,
CHARLES J. NEGER.
VENTILATOR.

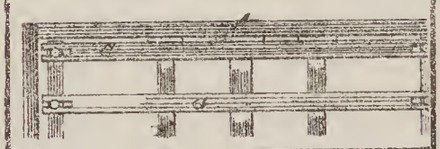


98,400, WILLIAM W. OGLESBEY.
SALVE.

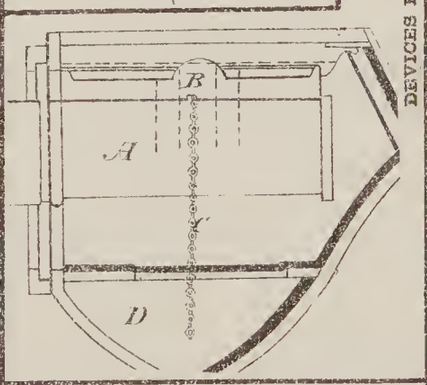
98,401. O. S. OSGOOD.



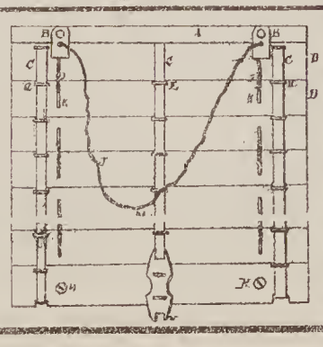
BED-BOTTOMS.



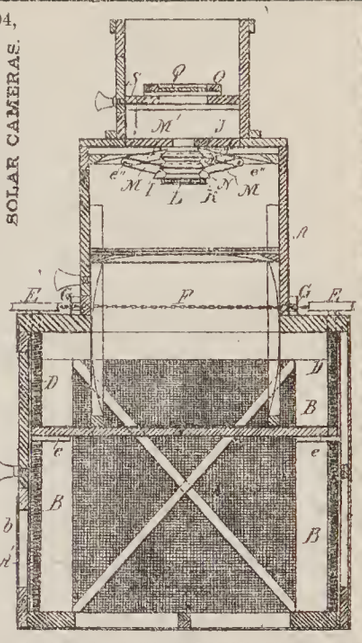
98,402.
ADDISON OVERBAGH.
DEVICES FOR LUBRICATING JOURNALS.



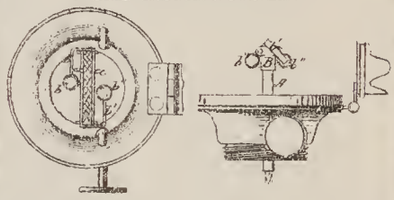
98,403.
LINDON PARK.
WINDOW-BLIND.



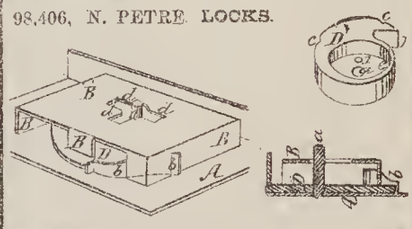
98,404,
ISAIAH PAXSON.
CHAS. PAXSON.
SOLAR CAMERAS.



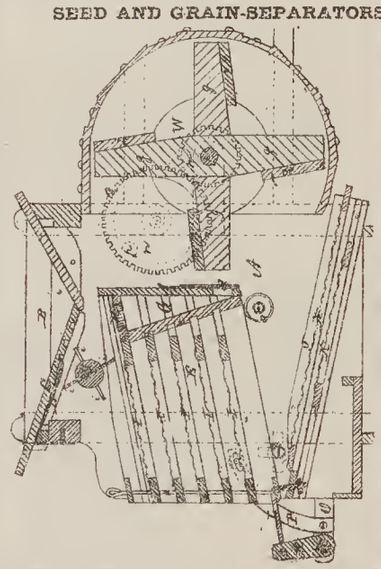
98,405. SETH W. PERKINS.
LAMP-EXTINGUISHER.



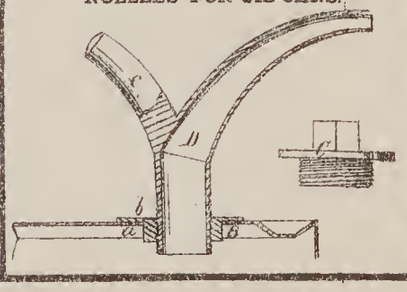
98,406, N. PETRE. **LOCKS.**



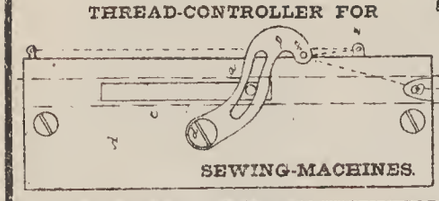
98,407, JOSEPH F. POOL.
SEED AND GRAIN-SEPARATORS.



98,408, CHAS. PRATT.
NOZZLES FOR OIL-CANS.



98,409. GEO. M. PRATT.
L. E. MAYNARD.
THREAD-CONTROLLER FOR SEWING-MACHINES.



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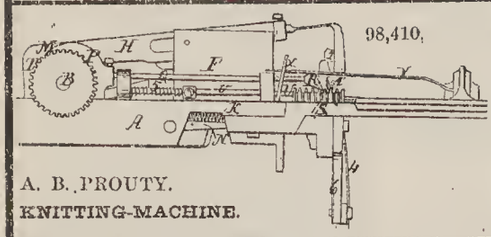
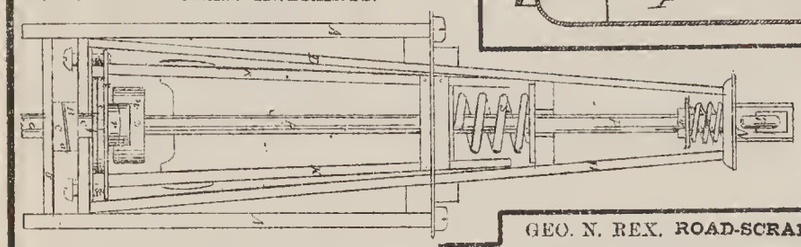
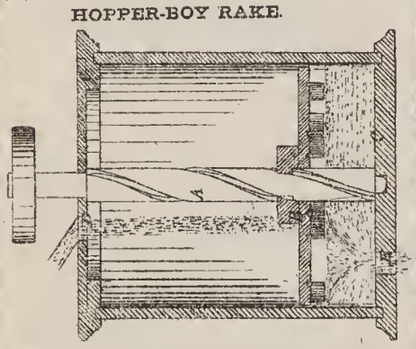


A. B. PROUTY.
KNITTING-MACHINE.

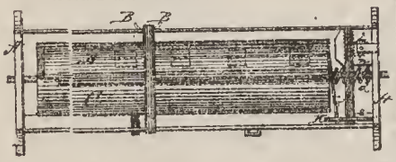
98,411, D. I. PRUNER. HYDRANTS.



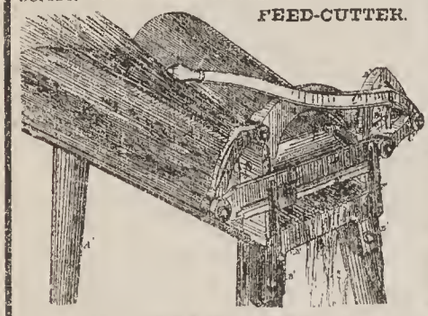
98,412. AARON C. PRY.
HOPPER-BOY RAKE.



98,413. AMOS RAFFENSPARGER.
D. G. S. GOCHNAUER.
SEED-SOWERS.



98,414. J. P. RANDOLPH.
FEED-CUTTER.



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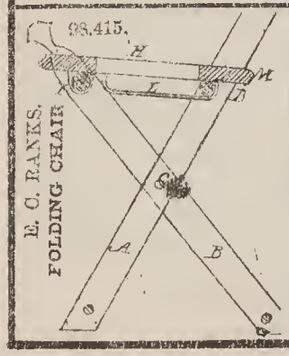
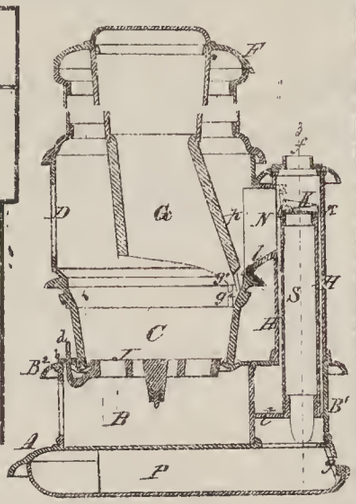
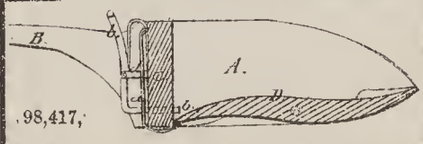


E. C. RANKS.
FOLDING CHAIR

98,416. S. H. RANSOM.
BASE-BURNING STOVE

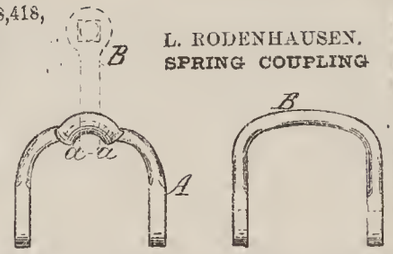


GEO. N. REX. ROAD-SCRAPER.



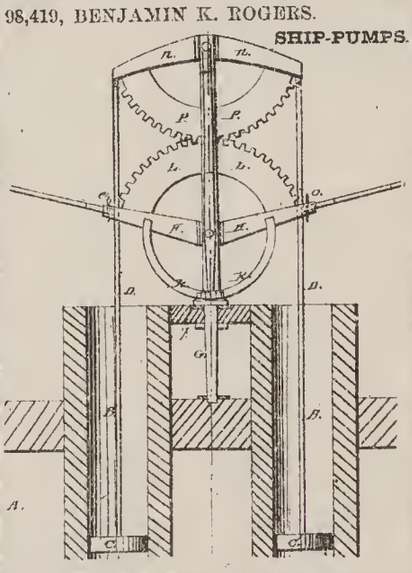
98,417.

98,418,

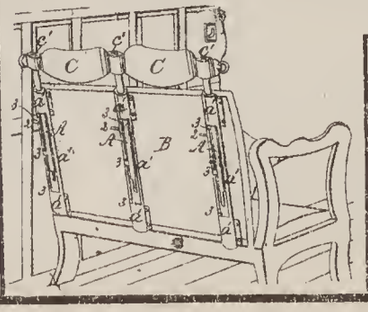


L. RODENHAUSEN.
SPRING COUPLING

98,419, BENJAMIN K. ROGERS.
SHIP-PUMPS.

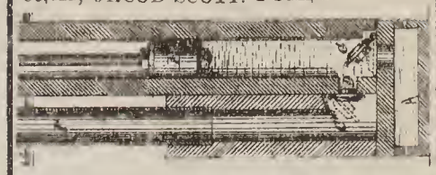


98,420, H. W. SAFFORD. HEAD-REST FOR CAR-SEATS

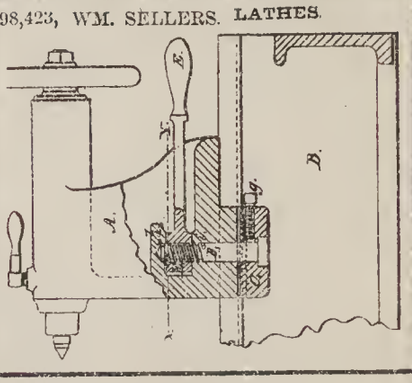


98,421, JACOB F. SAIGER.
CURING AND PRESERVING BUTTER.

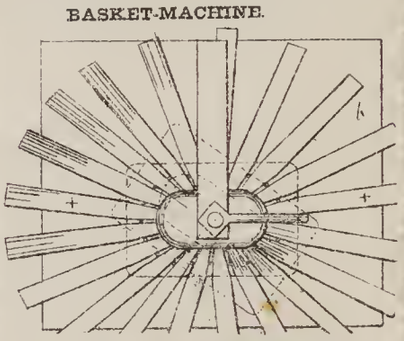
98,422, JACOB SCOTT. PUMPS.



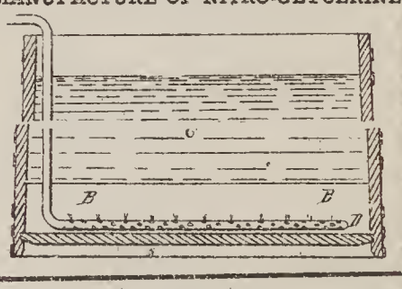
98,423, WM. SELLERS. LATHES.



98,424, MERVILLE SHAFFER.
BASKET-MACHINE.



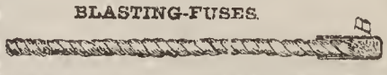
98,425, TAL. P. SHAFFNER.
MANUFACTURE OF NITRO-GLYCERINE.



98,426, TAL. P. SHAFFNER.
PROCESS OF PRESERVING NITROLEUM AND OTHER EXPLOSIVE LIQUIDS.

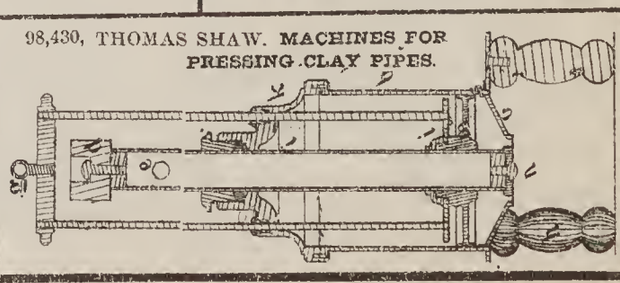
98,427, TAL. P. SHAFFNER.
EXPLOSIVE COMPOUND.

98,428, TAL. P. SHAFFNER.
BLASTING-FUSES.



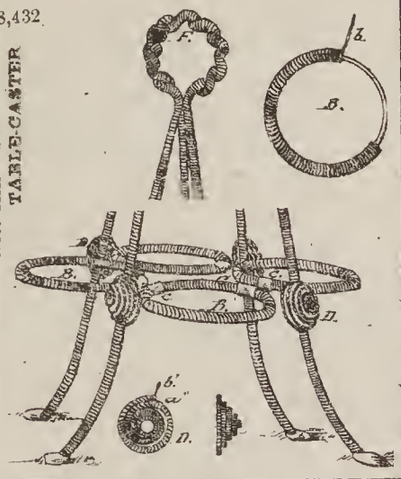
98,429, JAMES T. SHATTUCK.
WELL-TUBES.

98,430, THOMAS SHAW. MACHINES FOR PRESSING CLAY PIPES.

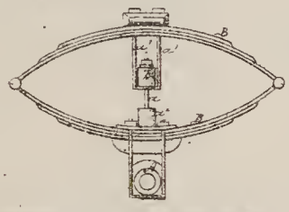


98,431, DANIEL SHERWOOD.
IMPROVED KNIFE-REST.

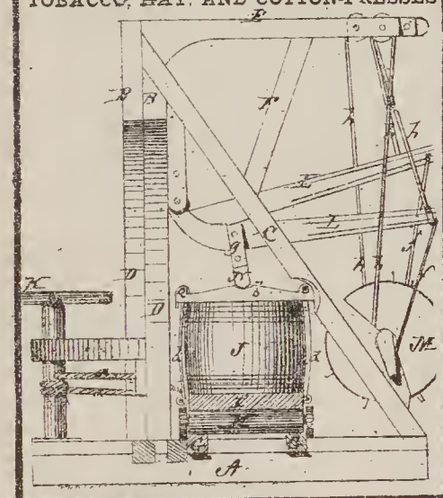
98,432, DANIEL SHERWOOD.
TABLE-CASTER



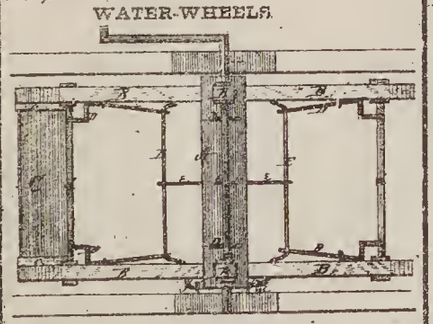
98,433, DANIEL SHOCKEY.
CARRIAGE-SPRINGS.



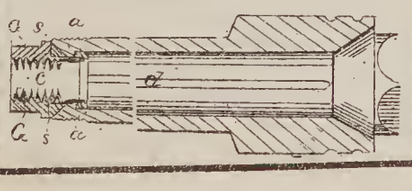
98,434, VALENTINE J. SHRYOCK.
TOBACCO, HAY, AND COTTON-PRESSES



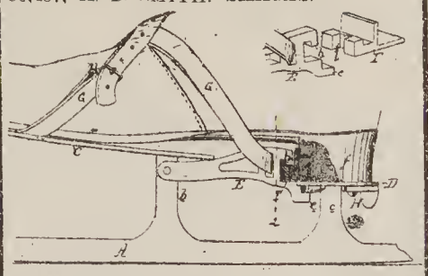
98,435, WILLIAM SLADE.
WATER-WHEELS.



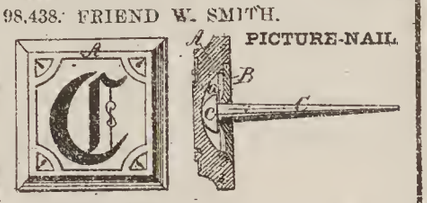
98,436, ALFRED E. SMITH.
CARRIAGE-AXLE.



98,437, A. B. SMITH. SKATES.

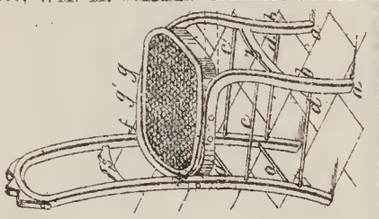


98,438, FRIEND W. SMITH.
PICTURE-NAIL.

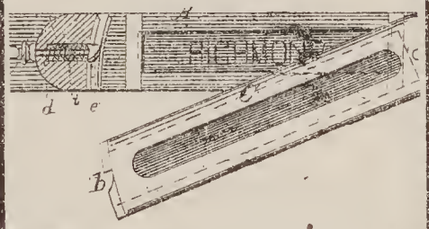


98,439, WM. H. SMITH.
METALLIC CARTRIDGES.

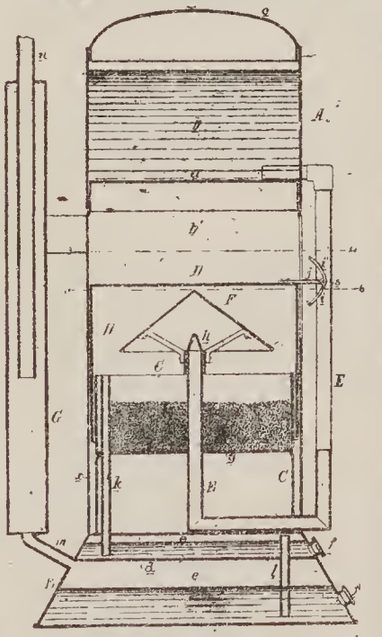
98,440, WM. M. SMITH. CHAIR-FRAME.



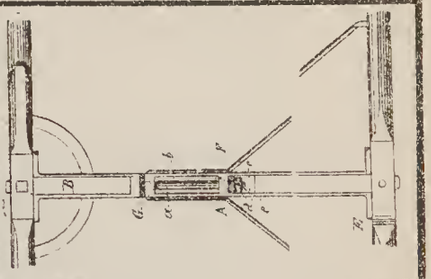
98,441, C. A. SNYDER.
TAG FOR MAIL-BAGS.



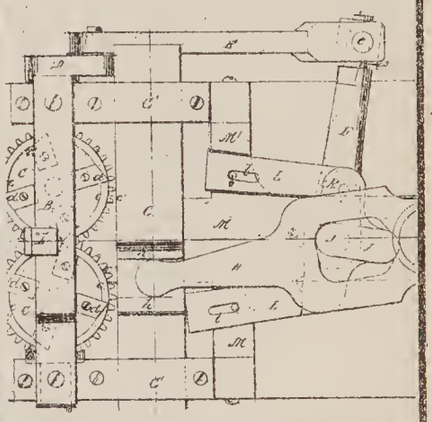
98,442, JOHN H. STEINER.
APPARATUS FOR PRODUCING AND CARBURETTING HYDROGEN-GAS.



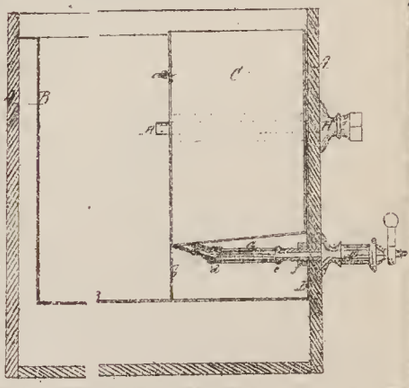
98,443, LEWIS THEOBALD.
CARRIAGES.



98,444, LEOPOLD THOMAS. MACHINE FOR MAKING RAILROAD-SPIKES.

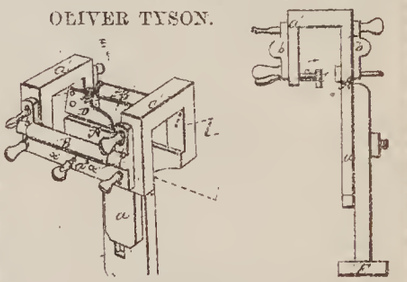


98,445, JAMES W. TUFTS.
SODA-WATER APPARATUS.

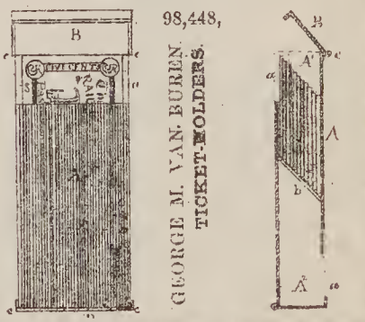


98,446, M. P. TURNER.
WALL FOR BUILDINGS.

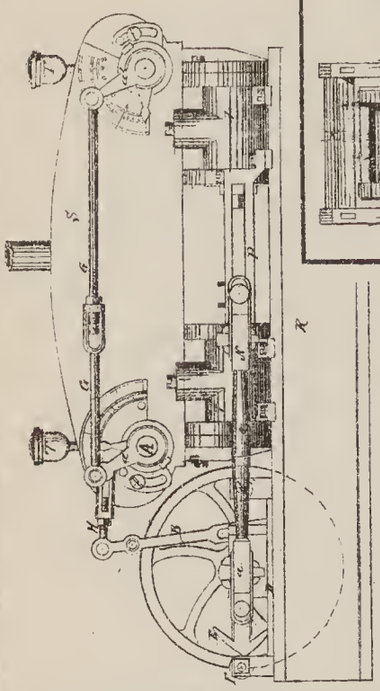
98,447, GAUGE FOR FILING SAWS.
OLIVER TYSON.



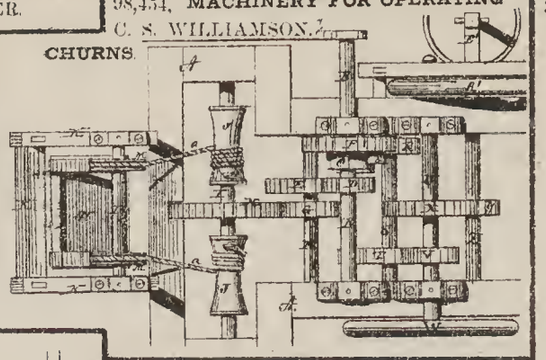
98,448, GEORGE M. VAN BUREN.
TICKET-HOLDERS.



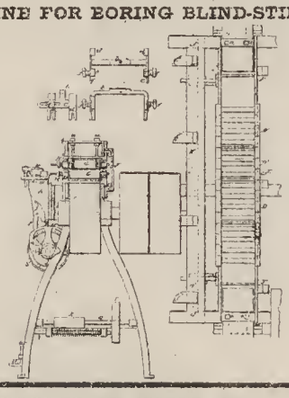
98,449. CHARLES C. WAGGONER. STEAM-ENGINES.



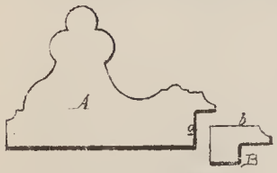
98,454. MACHINERY FOR OPERATING CHURNS. C. S. WILLIAMSON.



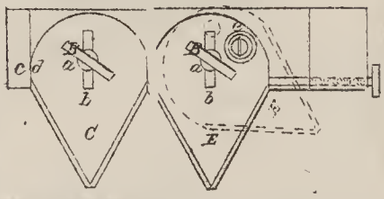
98,455. A. M. WINN. JEFFERSON KINDLEBERGER. WILLIAM AUGUSTUS ARNOLD. MACHINE FOR BORING BLIND-STILES.



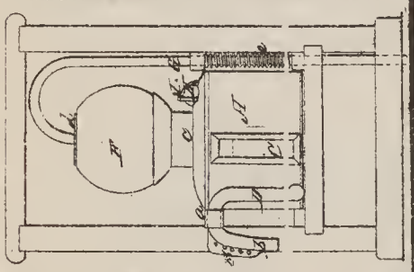
98,450. WASHINGTON WALLICK. THE MANUFACTURE OF PARTLY GILT FRAMES.



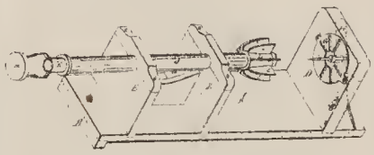
98,456. FREDERICK WITTRAM. HARVESTER-CUTTERS.



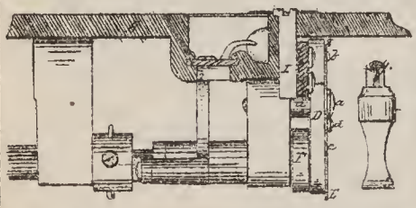
98,451. JOHN P. WHIPPLE. APPARATUS FOR FILLING VIALS.



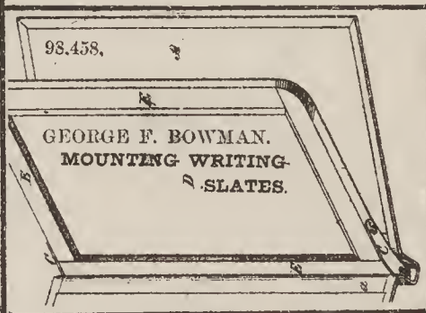
98,457. MOSES B. WRIGHT. APPLE-CORING AND SLICING MACHINE



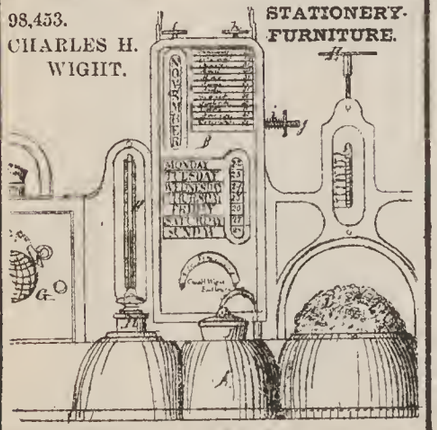
98,452. JAMES H. WHITNEY. FEEDING-MECHANISM FOR SEWING-MACHINE.



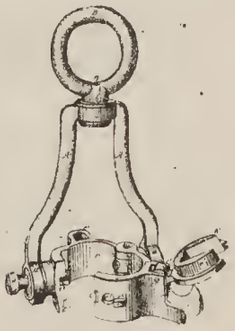
98,458. GEORGE F. BOWMAN. MOUNTING WRITING-SLATES.



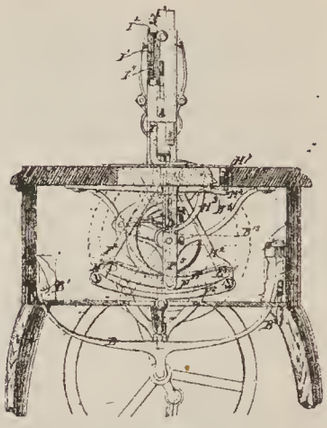
98,453. CHARLES H. WIGHT. STATIONERY-FURNITURE.



98,459. ADAM GOOD. CLAMPS FOR ELEVATING WELL-TUBES AND RODS.



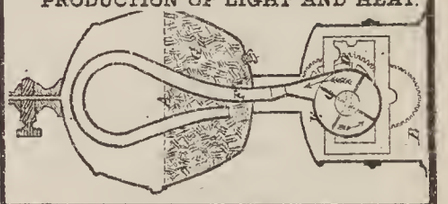
3,776. P. J. CLEVER. SEWING-MACHINE.



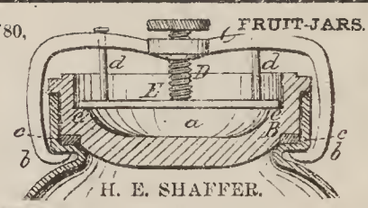
3,777. J. A. McCLELLAND. COLLODION. PREPARING COMPOUNDS CONTAINING

3,778. J. A. McCLELLAND. PLATES. MATERIAL FOR FORMING DENTAL

3,779. BLAKEY PILKINGTON. CARBURETTING AIR FOR THE PRODUCTION OF LIGHT AND HEAT.

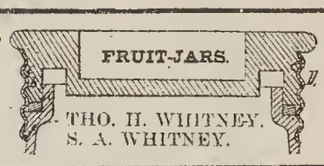


3,780. FRUIT-JARS.



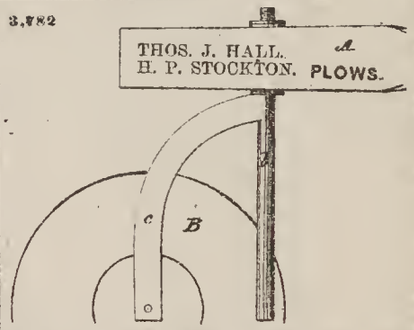
H. E. SHAFFER.

3,781. FRUIT-JARS.

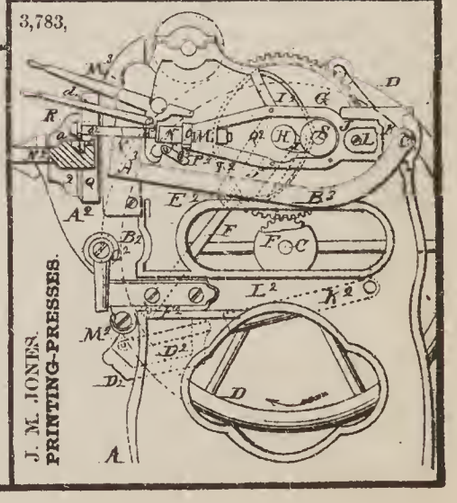


THO. H. WHITNEY. S. A. WHITNEY.

3,782 THOS. J. HALL. H. P. STOCKTON. PLOWS.



3,783. J. M. JONES. PRINTING-PRESSES.



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